# UNCLASSIFIED AD 427799

# DEFENSE DOCUMENTATION CENTER

FOR

SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION, ALEXANDRIA. VIRGINIA



UNCLASSIFIED

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

### Supplement VI

Bibliography on Salmonella exclusive of Salmonella typhi

1961

Compiled by the University of Wisconsin

DA - 18 - 064 - 404 - CMC - 58

This work was supported under contract with the Chemical Corps,

Fort Detrick, Frederick, Maryland

CATALOGED BY DDC AS AD NO.

427799

يحدن منبع وددو

JAN 24 1964

Cleared Statements:

### DDC AVAILABILITY NOTICE

Qualified requestors may obtain copies of this document from DDC.

This publication has been cleared for release to the general public. Non-DOD agencies may purchase this publication from the Office of Technical Services, U. S. Department of Commerce, Washington 25, D. C.

### Table of Contents

Enterobacteriaceae Taxonomy, etc. Antigens General and Miscellaneous Vi and K Antigens H-Antigens O-Antigens; Endotoxins Antigenic Relationships with Other Genera Serology and Experimental Immunology Distribution of Types New Types Colonial Morphology Physiology Culture Media Effect of Antibiotics Effect of Chemical Antibacterial Agents Effect of Other Antibacterial Agents Bacterial Interactions Bacteriophage General Bacteriophage Typing Genetics	1 3 5 6 7 10 11 17 18 20 21 27 29 31 23 34 36
Salmonellae in Animals	40
Salmonellae in Food and Food Products	43
Salmonellae in Water, Sewage and Soil	47
Human Salmonellosis General Salmonellosis in Infants and Children Food Poisoning Clinical Features and Complications Laboratory Diagnosis Epidemiology Human Carriers Vaccination and Immunity Treatment	48 50 51 53 56 58 63 64 66
Animal Salmonelloses General and Miscellaneous Pullorum Disease and Fowl Typhoid Avian Salmonelloses other than Pullorum Disease and Fowl Typhoid Salmonella Infections in Cattle Salmonella Infections in Sheep and Goats Salmonella Infections in Swine Salmonella Infections in Horses Salmonella Infections in Dogs and Cats Salmonella Infections in Rodents and other Small Animals Epizootiology Animal Salmonelloses: Treatment and Control Experimental Salmonelloses	67 68 70 72 73 74 75 76 77 80 83

## Key to abbreviations of abstract journals:

Ab. S. M.

Abstracts of Soviet Medicine

B. Ab.

Biological Abstracts

B. Hy.

Bulletin of Hygiene

Int. Ab.

International Abstracts of Biological

Sciences

V. B.

Veterinary Bulletin

Z. B.

Zentrablatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene, Erste Abteilung: Referate

### Enterobacteriaceae -- Taxonomy, etc.

- Andreenko, L. M. & Kamalyan, L. A. 1961 (The properties of Bethesda-Ballerup microbes and methods of their differentiation from Salmonella.) J. Microbiol., Moscow 32(11), 79-82.
- Bulling, E. 1961 (Comparative research on the serological, biochemical and bacteriophage differentiation of Salmonella typhimurium.) Proc. 2nd Symp. int. 4ss. vet. Food Hyg., Basel 1960 pp. 313-320.
- Caroli, G. & Di Biase, C. 1961 Contributo allo studio delle formazioni polari PAS positive degli enterobatteri. IV. Sulla ricerca delle granulazioni PAS positive ai fini dell' identificazione del genere Proteus. Boll. Ist. sieroter. Milano 40, 30-34. (E. sum.) Abstr: B. Ab. 36, 69017; Int. Ab. 23, 5206.
- Kauffmann, F. 1961 Die Bakteriologie der Salmonella--Species. Ejnar Munksgaard Ltd., Copenhagen. 255 pp. Abstr: B. Hy. <u>37</u>, 327; V. B. <u>32</u>, 639.
- Kauffmann, F. 1961 The species-definition in the family Enterobacteriaceae. Int. Bull. bact. Nom. Taxon. 11, 5-6. Abstr; B. Ab. 36, 45264; Z. B. 183, 143.
- Kauffmann, F. 1961 Supplement to the Kauffmann-White-scheme (IV). Acta path. microbiol. scand. 52, 221-226. Abstr: B. Ab. 37, 6394; Z. B. 184, 472.
- Kelterborn, £. 1961 Uber den Aufbau einer Salmonella-Kartei mit Kerblochkarten. Zbl. Bakt. I Orig. 182, 473-484.
- Le Minor, L. & Le Minor, S. 1961 (Activities of the Centre Français des Salmonella de 1' Institut Pasteur.) Rev. Hyg. Med. soc. 2, 446-469.
- Noller, E. C. 1961 Comparative lytic reactions of the Enterobacteriaceae. Diss. Abstr. 21, 1711.
- Noller, E. C. & Hartsell, S. E. 1961 Bacteriolysis of Enterobacteriaceae. I. Lysis by four lytic systems utilizing lysozyme. J. Bact. <u>81</u>, 482-491. Abstr: Int. 4b. <u>25</u>, 3159.
- Sedlak, J., Slajsova, M. & Tomasoffova, A. 1961 Zur biochemischen Differenzierung von Enterobacteriaceae. Z. ges. Hyg. 2, 774-788. Abstr: B. Hy. 37, 770.
- Seelinger, H. P. R. & Holl, K. M. 1961 Zur Differentialdiagnose von Enterobacteriaceen mit dem Lysin-Decarboxylase-Test. Z. Hyg. InfektKr. 147, 336-346. Abstr: B. Hy. 36, 803; Int. Ab. 23, 5168; Z. B. 184, 504.
- Seeliger, H. P. R. & Holl, K. M. 1961 Die Verwendung des Salmonella-01-Phagen bei der Differentialdiagnose von Enterobacteriaceen. Z. Hyg. InfektKr. 147, 529-538. Abstr: Int. Ab. 25, 981; B. Hy. 37, 416.
- Suassuna, I., Suassuna, I. R. & Ewing, W. H. 1960 Estudo sobre as reacces do vermelho de metila e de Voges and Proskauer em enterobacterias. An. Microbiol. 8, 131-160. (E. sum.) Abstr: B. Ab. 38, 2336; Z. B. 184, 504.

### Enterobacteriaceae -- Taxonomy, etc. (Cont'd.)

- Suassuna, I., Suassuna, I. R. & Ewing, W. H. 1961

  Proskauer reactions of Enterobacteriaceae.
  State and Prov. Publ. Hlth. Lab. Directors
  38, 22947.

  The methyl red and VogesPubl. Hlth. Lab. Bull. Conf.
  19(4), 67-74. Abstr: B. Ab.
- Velaudapillai, T. 1961 Of the naming of salmonellas, is there no end? Int. Bull. bact. Nom. Taxon. 11, 1-4. Abstr: B. Ab. 36, 45306; Z. B. 183, 143.
- Weber-Schutt, G. 1961 (Differentiation of Enterobacteriaceae with special attention to forms important to food sanitation.) Versta. f. das. Gärungsgewerbe 15, 131-135; 150-156.

- Barbu, E., Panijel, J. & Quash, G. 1961 Caracterisation immunochimique des ribosomes. Ann. Inst. Pasteur 100, 725-746. (E. sum.) Abstr: V. B. 31, 3633.
- Gekker, V. D., Sergeeva, N. S. & Ivanova, L. K. 1961 (Study of the antigenic structure of the intestinal-typhoid group of bacteria by specific precipitation in gel.) J. Microbiol., Moscow 32(2), 61-65. Abstr: Ab. S. M. 5, 3615.
- Gekker, V. D., Sergeeva, N. S. & Ivanova, L. K. 1961 A study of the antigenic structure of bacteria of the coliform-Salmonella group by the method of specific precipitation in gel. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 266-271. Abstr: B. Ab. 39, 6821; Int. Ab. 26, 5602.
- German, A., Lambin, S. & Sigrist, W. 1961 (Influence of lyophilization on the characteristics of some salmonellae. III. Influence of lyophilization on the antigenic potency of E. typhosa and S. paratyphi B.) Ann. pharm. franc. 19, 255-266; 346-357.
- Gordienko, 4. N. et al. 1960 Electrophysiological analysis of the action of pathogen bacterial antigens of the enteric bacteria on carotid sinus receptions. In: A. N. Gordienko, Editor. Control of immunogenesis by the nervous system. Office of Technical Services, U. S. Department of Commerce. pp. 63-67. Abstr: B. Ab. 37, 13742.
- Gylybov, S. 1960 (Biological products obtained from Brucella, Pasteurella and Salmonella by ultrasonic treatment.) Izv. mikrobiol. Inst., Sofia 11, 65-83. (F. & R. sums.)
- Nikolov, P. 1961 Untersuchungen über den Antigenbestand von Salmonella gallinarum. C. R. Acad. bulg. Sci. 14, 75-78. (R. sum.)
- Staub, A. M. 1961 Constitution chimique de quelques sites presents a la surface des enterobacteriaceae responsables de leur specificite vis-a-vis des anticorps et des bacteriophages. Path. Microbiol., Basel 24, 890-909. (E. sum.) Abstr: B. Ab. 39, 2920.
- Takahashi, S. 1961 (Studies on the antigenic schema of Salmonella paratyphi A. XI. Consideration on the mechanism of the "titer deterioration phenomenon" in agglutination, and supposition of the labile antigen Q (4). XII. Consideration on the "titer deterioration phenomenon" in agglutination, and supposition of the labile antigen Q-(5).) Endemic Dis. Bull. Nagasaki Univ. 2, 10-47; 93-109.
- Timakov, V. D. & Skavronskaya, 4. G. 1961 (Comparative study of protein fractions and of complete antigens of the intestinal bacilli. J. Microbiol., Moscow 22(3), 3-9. Abstr: Ab. S. M. 5, 3246.
- Timakov, V. D. & Skavronskaya, A. G. 1961 Comparative study of the protein fractions and the complete antigens of the intestinal bacteria. (Transl.) J. Microbiol. Spidemiol. Immunobiol. U.S.S.R. 32, 393-400.

Antigens -- General and Miscellaneous (Cont'd.)

Whiteside, R. E. & Baker, E. E. 1961 Serologic study of antigens of some salmondlae. (Abstr.) Bact. Proc. 61, 116.

### Vi & K Antigens

Whiteside, R. E. & Baker, E. E. 1961 The Vi antigens of the Enterobacteriaceae. V. Serologic differences of Vi antigens revealed by deacetylation. J. Immunol. 86, 538-542. Abstr: B. Ab. 36, 61235; Int. Ab. 26, 3433; B. Hy. 37, 982.

### H-Antigens

- Harvey, R. W. S. & Price, T. H. 1961 An economical and rapid method for H antigen phase change in the Salmonella group. Mon. Buil. Minist. Hith. Lab. Serv. 20, 11-13. Abstr: B. Hy. 36, 597.
- Grabar, Mme. J. & Yomtov, M. 1961 Extraction de l'antigene H des salmonelles sous forme soluble. Ann. Inst. Pasteur 101, 559-570. (E. sum.) Abstr: Int. Ab. 25, 3097; B. Hy. 37, 982; B. Ab. 40, 7427.
- Jameson, J. E. 1961 A simple method for inducing motility and phase change in Salmonella. Mon. Bull. Minist. Hlth. Lab. Serv. 20, 14-16. Abstr: B. Hy. 36, 597.

### O-Antigens: Endotoxins

- Antweiler, H. 1960 Ist die Histaminfreisetzung durch Baumwollstaubextrakte von Bakterien-Endotoxinen verursacht? Naturwissenschaften 47, 451. Abstr: Z. B. 184, 284.
- Avetikyan, B. G. & Karasik, O. A. 1961 (Absorption and elimination of foreign antigenic substances by cells in certain tissue cultures.) Tsitologiya 3(1), 40-47. Abstr: Ab. S. M. 5, 4743; B. Ab. 38, 2364; Int. Ab. 26, 1096.
- Barnitzki, R. 1961 (The detection of bacterial toxins in meat by a colour reaction.) Csl. Hyg. 6, 321-324. (E. sum.) Abstr: B. Hy. 36, 1118.
- Bennett, I. L., Jr. 1961 Pathogenesis of fever. Rull. N. Y. Acad. Med. 37, 440-447.
- Berry, L. J. & Smythe, D. S. 1961 Effects of bacterial endotoxins on metabolism. III. Nitrogen excretion after ACTH as an assay for endotoxin. J. exp. Med. 113, 83-94. Abstr: B. Ab. 36, 24757; Int. Ab. 22, 3123.
- Dubos, R. & Schaedler, R. W. 1961 The effect of bacterial endotoxins on the water intake and body weight of mice. J. exp. Med. 113, 921-934. Abstr: B. Ab. 36, 57245.
- Fritze, E., Schneider, H. H. & Von Voigt, I. 1961 Zur Wirkung bakterieller Pyrogene bei intravenöser und intrathekaler Injektion. Z. ges. exp. Med. 134, 280-290. Abstr: B. Ab. 36, 53443; Int. Ab. 23, 3137.
- Gledhill, A. W. 1959 The effect of bacterial endotoxin on resistance of mice to ectromelia. Brit. J. exp. Path. 40, 195-202. Abstr: Z. B. 183, 96.
- Haskins, W. T., Landy, M., Milner, K. C. & Ribi, E. 1961 Biological properties of parent endotoxins and lipoid fractions, with a kinetic study of acid-hydrolyzed endotoxin. J. exp. Med. 114, 665-684. Abstr: B. Ab. 38, 14972.
- Janoff, A., Zweifach, B. W., Nagler, A. L. & Ovary, Z. 1961 Detection of ferritin in the plasma of guinea-pigs in experimental shock. Circulat. Res. 2, 407-412. Abstr: Int. Ab. 23, 5137.
- Kauffmann, F. 1961 Zur Serologie der somatischen Enterobacteriaceae-Antigene.
  Path. Microbiol., Basel 24, 860-869. (E. sum.) Abstr: B. Ab. 39, 6932.
- Kauffmann, F., Krüger, L., Lüderitz, O. & Westphal, O. 1961 Zur Immunchemie der O-Antigene von Enterobacteriaceae. VI. Vergleich der Zuckerbausteine von Polysacchariden aus Salmonella-S- und R-Formen. Zbl. Bakt. I Orig. 182, 57-66. (E. sum.) Abstr: B. Hy. 37, 416; Z. B. 183, 143.
- Kauffmann, F., Lüderitz, O., Stierlin, H. & Westphal, O. 1961 Analyse der Zuckerbausteine von Enterobacteriaceae, speziell von Salmonella-Bakterien. (Abstr.) Zbl. Bakt. I Ref. 179, 341-342.

### O-Antigens; Endotoxins (Cont'd.)

- Kauffmann, F. & Rohde, R. 1961 Neue Befunde beim O-Formen-Wechsel der Salmonellaspecies. Acta path. microbiol. scand. <u>52</u>, 211-216. Abstr: B. Ab. <u>37</u>, 6395; Z. B. <u>184</u>, 472.
- Kotelko, K., Staub, A. M. & Tinelli, R. 1961 Etude immunochimique su les Salmonella. VIII. Role des groupements O acetyls dans la specificite du facteur 0:5. Ann. Inst. Pasteur 100, 618-637. (E. sum.) Abstr: Int. Ab. 23, 5200; B. Ab. 40, 7435.
- Likar, M., Bartley, E. O. & Wilson, D. C. 1959 Observations on the interaction of poliovirus and host cells in vitro. III. The effect of some bacterial metabolites and endotoxins. Brit. J. exp. Path. 40, 391-397. Abstr. Z. B. 182, 226.
- McCabe, W. R. 1961 Tolerance to bacterial endotoxin produced by proliferation of gram negative bacteria in the kidney. Proc. Soc. exp. Biol., N. Y. 107, 402-404. Abstr: B. Ab. 36, 85435.
- Mesrobeanu, L., Mesrobeanu, I. & Mitrica, N. 1961 Les endotoxines thermolabiles (neurotoxines) des germes gram negatifs. I. Les neurotoxines du bacille Typhi murium "S" et "R". Arch. roum. Path. exp. Microbiol. 20, 399-423. Abstr: B. Hy. 37, 770.
- Millman, I. 1961 Nonspecific resistance to tuberculosis. Amer. Rev. respir. Dis. 83, 668-675. Abstr: B. Ab. 36, 57285; Int. Ab. 23, 4991.
- Munoz, J. 1961 Permeability changes produced in mice by Bordetella pertussis. J. Immunol. <u>86</u>, 618-626. Abstr: B. Ab. <u>36</u>, 69120; Int. Ab. <u>25</u>, 902.
- Nanni, G. & Marinari, U. M. 1961 (Anaerobic glycolysis of guinea-pig diaphragm in fever produced by 2, 4-dinitrophenol and by bacterial polysaccharide.) G. Biochim. 10, 1-7. Abstr: Int. Ab. 24, 2765.
- Ribble, J. C. 1961 Increase of plasma lysozyme activity following injections of typhoid vaccine. Proc. Soc. exp. Biol., N. Y. 107, 597-600. Abstr: 37, 325.
- Ribi, E., Haskins, W. T., Landy, M. & Milner, K. C. 1961 Symposium on bacterial endotoxins. 1. Relationship of chemical composition to biological activity. Bact. Rev. 25, 427-436. Abstr. B. Ab. 38, 15011.
- Ribi, E., Haskins, W. T., Landy, M. & Milner, K. C. 1961 Preparation and host-reactive properties of endotoxin with low content of nitrogen and lipid.

  J. exp. Med. 114, 647-663. Abstr: Int. Ab. 26, 832; B. Ab. 38, 15012.
- Sibal, L. R. 1961 Effect of endotoxin on antibody production by chicken spleen cells transferred to chick choricallantois. J. Immunol. 87, 362-366.

  Abstr: B. Ab. 37, 14775.
- Springer, G. F., Williamson, P. & Brandes, W. C. 1961 Blood group activity of gram-negative bacteria. J. exp. Med. 113, 1077-1093. Abstr: B. Hy. 36, 1298.

### O-Antigens; Endotoxins (Cont'd.)

- Trusscsynski, M. & Baker, E. S. 1961 Inhibition with simple sugars of hemagglutination of red cells medified with Salmonella antigenic preparations.

  (Abstr.) Fed. Proc. 20, 29.
- Ustake, H., Uchida, T. & Makino, T. 1961 (Group E Salmonella with T1 antigen.)
  Jap. J. Bact. 16, 805-807. Abstr: B. Ab. 28, 15038.
- Uetake, H., Uchida, T. & Makino, T. 1961 Group E Salmonella with T1 antigen. Jap. J. Microbiol. 5, 73-76. Abstr: B. Hy. 32, 771.
- Van Oye, E. 1961 Sur la nature de l'antigene 0:27 des Salmonellae. Ann. Inst. Pasteur 100, 463-469. (E. sum.) Abstr: Int. Ab. 23, 3211; B. Hy. 36, 1186; B. Ab. 40, 11731.
- Westphal, O. & Lüderitz, O. 1961 Chemie bakterieller O-Antigene. Path. Microbiol., Basel 24, 870-889. Abstr: B. Ab. 39, 6581.
- Whitby, J. L., Michael, J. G., Woods, M. W. & Landy, M. 1961 Symposium on bacterial endotoxins. II. Possible mechanisms whereby endotoxins evoke increased nonspecific resistance to infection. Bact. Rev. 25, 437-446.
- Woods, M. W., Landy, M., Whitby, J. L. & Burk, D. 1961 Symposium on bacterial endotoxins. III. Metabolic effects of endotoxins on mammalian cells. Bact. Rev. 25, 447-456. Abstr: B. Ab. 38, 15044.
- Zharova, E. I., Khokhlova, M. P. & Bolotnikova, F. I. 1961 (Effect of acute and chronic intoxication on hematopoiesis in mice.) Probl. Gematol. 6(10), 8-14.

### Antigenic Relationships with Other Genera

- Pers, I. F. 1960 Antigenic relations between Shigella and Salmonella. I. Antigenic relations between Shigella and Salmonella on the basis of precipitation tests with sonicated antigens. (Transl.) J. Microbiol. Epidemicl. Immunobiol. U.S.S.R. 31, 2121-2127. Abstr: Int. Ab. 25, 3101; B. Hy. 37, 983.
- Pers, I. F. 1961 (Antigenic relationships in Shigella and Salmonella. II. On the nature of antigenic relationships in Shigella and Salmonella.) J. Microbiol., Moscow 32(3), 102-107. Abstr: Ab. S. M. 5, 3282.
- Pers, I. F. 1961 Antigenic relationships in Shigella and Salmonella. II. The character of the antigenic relationships in Shigella and Salmonella. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 514-520. Abstr: B. Ab. 39, 19461.

### Serology and Experimental Immunology

- Adachi, H. 1961 (Studies on chrome vaccine of Salmonella abortus-equi. I. Conditions of chrome treatment.) Jap. J. vet. Sci. 23, 125-130. (E. sum.) Abstr: B. Ab. 38, 19482.
- Balchev, M. & Kozhukharova, L. 1960 (Development of Brucella and Salmonella agglutinins and amboceptors in lamb and piglet.) Nauch. Trud. vet. Inst. zaraz. parazit. Bolesti, Sofia 2, 299-307. (E. sum.)
- Barna, D., Mithal, S. & Aikat, B. K. 1961 Role of chloramphenicol on the development of immunity in infection by S. typhi. Indian J. med. Res. 49, 368-387. Abstr: B. Hy. 36, 1299.
- Bassiouni, A. A. H. 1961 Untersuchungen zur Frage des Zeitpunktes der Antikorperbildung bei verschiedenen alten Küken. Inaug. Diss., Justus-Liebig Univ., Giessen. 38 pp. Abstr: V. B. 32, 3453.
- Bauer, D. C. & Stavitsky, A. B. 1961 Different molecular forms of antibody synthesized by rabbits during early response to a single injection of protein and cellular antigens. Proc. nat. Acad. Sci., Wash. 47, 1667-1680. Abstr: Int. Ab. 25, 2975.
- Brodhage, H. 1961 Harnstoff-Extrakte aus gramnegativen Bakterien in der indirekten Hämagglutinationsreaktion. I. Harnstoff-Extrakte aus S. typhi, paratyphi-B, cholerae suis und Shig. sonnei. Z. Hyg. InfektKr. 148, 94-104. Abstr: Int. Ab. 26, 1273.
- Bussolati, C. & Santi, A. 1961 Sistema nervoso vegetativo e immunita. 2. Nota sperimentale. Clin. vet., Milano 84, 102-106. Abstr: V. B. 31, 3275.
- Colobert, L., Kirn, A., Montagnon, B. & Servant, P. 1961 Les proprietes lytiques du serum. IV. Interference du vaccin antipoliomyelitique sur la montee de l'obsistine provoquee chez le singe par la vaccination antityphoparatyphoidique A et B. Ann. Inst. Pasteur 100, 613-617. (E. sum.) Abstr: Int. Ab. 23, 4989; B. Hy. 36, 1213; B. Ab. 40, 7418.
- Colobert, L., Kirn, A., Servant, P. & Montagnon, B. 1961 Les proprietes lytiques du serum. III. Influence chez le singe de la vaccination antityphoparatyphoidique sur la teneur en obsistine. Ann. Inst. Pasteur 100, 600-612. (E. sum.) Abstr: Int. Ab. 23, 4989; B. Hy. 36, 1213; B. Ab. 40, 7417.
- Crosnier, M. 1961 Salmonelloses et sero-diagnostics negatifs. Bull. Acad. nat. Med. 145, 318-321.
- Dvorak, M. 1960 (Experimental study of diathelic immunity in cows.) Sborn. vys. Sk. zemedelsk. Brno. Ser. B. 8, 357-362. (E. sum.) Abstr: V. B. 31, 2219.
- Fesce, A. 1961 Indagini sul fenomeno della conglutinazione. III. Sulla capacita delle conglutinine purificate di flocculare differenti generi microbici in assenza di complemento. Boll. Ist. sieroter. Milano 40, 160-168. (E. sum.) Abstr: Int. Ab. 24, 5477.

### Serology and Experimental Immunology (Cont'd.)

- Field, E. J., Green, C. A. & Miller, H. 1961 Response of normal and multiple sclerotic subjects to typhoid-paratyphoid vaccine injections. J. Neurol. Psychiat. 24, 78-79. Abstr: B. Ab. 37, 2152.
- Flamm, H. & Wiedermann, G. 1961 Spezifische immunologische Toleranz gegen bakterielle Antigene bei erwachsenen Versuchstieren. Path. Microbiol., Basel 24, 1099-1106. (E. sum.) Abstr: B. Ab. 39, 2888.
- Fujisaki, Y. 1961 (On experiments with the infection with S. typhimurium in whooping cough vaccine-inoculated animals (mice, guinea pigs).) Jap. J. Bact. 16, 391-402. Abstr: B. Ab. 32, 14751.
- Funaki, I. 1961 (Studies on the bactericidal action of the feces of rabbits immunized by Salmonella paratyphi B. II. The activity of a suspension of S. paratyphi B under the action of feces extracts.) Jap. J. Bact. 16, 792-795.
- Ganguli, S. 1961 Serotyping of Salmonella strains. Indian J. Path. Bact. 4, 96-100.
- Geissler, H. & Bassiouni, A. 1961 S- und R-Formen von Salmonella gallingrum (S. pullorum) und ihre Beziehung zur Agglutinationsreaktion. Berl. Münch. tierarztl. Wschr. 74, 111-113. (E. sum.) Abstr: Z. B. 183, 148; V. B. 31, 3166.
- Gheorghiu, I., Albu, T., Surdan, C., Carp, N. & Popa, M. 1961 (High immunogenicity of absorbed swine fever vaccine combined with killed salmonella.) Stud. Cercet. Inframicrobiol. Microbiol. Parazitol. 12, Suppl. pp. 455-461. (E. sum.) Abstr: V. B. 33, 529.
- Cheorghiu, I., Albu, T., Surdan, C., Carp, N. & Popa, M. 1961 (The immunogenic value of hog cholera-formol-adsorbate vaccine, prepared from bacteriologically sterile antigen or antigen contaminated with Salmonella in vivo and in vitro.) Lucr. Inst. Pasteur Bucuresti 5, 129-138. (R., F. & G. sums.)

  Abstr: B. Ab. 36, 85345.
- Gillissen, G. 1961 Die immunologische Antwort auf Salmonella-Extrakte. Z. Hyg. InfektKr. 148, 105-114. Abstr: Int. Ab. 26, 1274.
- Gizatullin, K. G., Akhmerov, D. S., Busygin, K. F. & Barskov, A. A. 1961 (Rapid demonstration of the causal agents of anthrax, brucellosis and swine paratyphoid by the fluorescent antibody method.) Uchen. Zap. Kazan. vet. Inst. 81, 35-44. Abstr: V. B. 33, 44.
- Glick, B. 1961 The influence of dipping eggs in mals hormone solutions on lymphatic tissue and antibody response of chickens. Endocrinology 69, 984-985. Abstr: Int. 4b. 25, 854.
- Glick, B. & Sadler, C. R. 1961 The elimination of the bursa of Fabricius and reduction of antibody production in birds from eggs dipped in hormone solutions. Poult. Sci. 40, 185-189. Abstr: B. Ab. 36, 34363; V. B. 31, 2967.

- Cylybov, S. 1961 (The complement fixation test in sheep aborting from Salmonella abortus-ovis infection.) Izv. mikrobiol. Inst., Sofia 12, 79-82. (F. & R. sums.)
- Harding, S. K., Bruner, D. W. & Bryant, I. W. 1961 Transfer of antibodies from the mother cat to her newborn kittens. Cornell Vet. 51, 535-539. Abstr: V. B. 32, 1126; B. Ab. 37, 14706. (Abstract is printed for entry 14699 under unrelated title)
- Hashimoto, H., Honda, T., Kawakami, M. & Mitsuhashi, S. 1961 Studies on the experimental salmonellosis. VI. Long-lasting immunity of mouse immunized with live vaccine of Salmonella enteritidis. Jap. J. exp. Med. 31, 187-190. Abstr: B. Ab. 37, 18954; Int. Ab. 25, 4865.
- Igonin, A. M. & Zemskov, E. M. 1961 (The morphology of active inhibitory phases of immunity in guinea pigs immunized with heated paratyphoid A vaccine.)
  Bull. Biol. Med. exp. U.R.S.S. 52(11), 80-84.
- Iseki, S., Kogure, T. & Yamamoto, S. 1961 Immunochemical studies on phage-mediated antigens in Salmonella. I. Absorption of factor serum by sugars. Proc. Japan Acad. 32, 645-650.
- Jaramillo M., E. 1961 (Production of an agglutinating serum "O" IV-V-XXI of Salmonella stanley.) Rev. Fac. Med. vet., Bogota 24, 737-741.
- Kato, T., Funaki, I. & Kagaya, H. 1961 (On the bactericidal substance in the feces of paratyphoid B immune rabbits: micro-determination of it by the turbidimetry of bacterial suspensions.) Jap. J. Bact. 16, 63-67.
- Kato, T., Funaki, I. & Kagaya, H. 1961 (Studies on the bactericidal action of the intestinal tissue of rabbits immunized by S. paratyphi B. II. The activity of the suspensions of paratyphoid B bacilli under the action of the intestinal tissue extracts.) Jap. J. Bact. 16, 134-136.
- Kato, T., Funaki, I. & Kagaya, H. 1961 On the bactericidal substance in the feces of paratyphoid B-immune rabbits: Microdetermination of it by turbidimetry of bacterial suspension. Wakayama Med. Repts. 6, 63-75. Abstr: B. Ab. 38, 14828.
- Khomik, S. R. 1961 (Preventive properties of blood sera with respect to S. typhimurium.) J. Microbiol., Moscow 32(12), 124.
- Kudryavtseva, K. I. 1960 (Specificity of agglutination tests for Brucella, Listeria, Salmonella and Proteus on bovine sera. Abortion in cows associated with Proteus X strains.) Trudy vsesoyuz. Inst. vet. Sanit. 16, 232-241. Abstr: V. B. 32, 1363.
- Kyrlov, V. N. & Malinovskii, O. V. 1961 Link between individual features of immunogenesis and typological features of nervous system in rabbits. I. Pattern of formation of agglutinins in relation to functional mobility of nervous processes. (Transl.) J. Microbiol. Spidemiol. Immunobiol. U.S.S.R. 32, 10-14. Abstr: Int. Ab. 26, 3333.

### Serology and Experimental Immunology (Cont'd.)

- Makela, O. & Nossal, G. J. V. 1961 Bacterial adherence: a method for detecting antibody production by single cells. J. Immunol. 87, 447-456. Abstr: B. Hy. 37, 323; Int. Ab. 26, 1127.
- Mäkelä, O. & Nossal, G. J. V. 1961 Study of antibody-producing capacity of single cells by bacterial adherence and immobilization. J. Immunol. 87, 457-463. Abstr: B. Ab. 37, 14713; B. Hy. 37, 324; Int. Ab. 26, 1127.
- Magwood, S. E. & Annau, E. 1961 The adsorption of somatic antigens of Salmonella by polystyrene latex particles. Canad. J. comp. Med. 25, 69-73. Abstr: B. Ab. 36, 53493; B. Hy. 36, 803; V. B. 31, 2843.
- Malyavin, A. G. & Gol'denman, F. I. 1961 (Transfer of immunity to coliparatyphoid bacteria from hyperimmunized cows to their calves.) Trudy nauchno-kontrol. Inst. vet. Preparatov 9, 117-122. Abstr: V. B. 32, 671.
- Malyavin, A. G. & Solov'eva, V. S. 1961 (Diagnosis of paratyphoid cultures with the aid of monospecific agglutinating sera.) Veterinariya, Moscow (8), 74-77. Abstr: Referat. Zhur., Biol., 1962. No. 18474.
- Matsui, K. 1961 (Studies on the agglutination of Salmonella abortus-equi. I. A comparison of the agglutinative activity between S. abortus-equi and other B-group Salmonella. II. Agglutination and other serological tests with bacterial polysaccharide antigens. III. Research on a factor influencing agglutinative activity.) Jap. J. Bact. 16, 516-520; 538-542; 777-780. Abstr: B. Ab. 37, 14519; 38, 19262.
- Mintzer, L. & Zilisteanu, E. 1961 (Heterologous immunogenicity to S. typhi of the 6203/32 Esch. Freundii with Vi antigen in association with Salmonella strains from the "D" serologic group.) Microbiol. Parazitol. Epidemiol., Bucuresti 6, 135-140.
- Mitsuhashi, S., Kawakami, M., Hashimoto, H., Sato, I. & Tanaka, T. 1961 Antilethal resistance of mouse immunized with live vaccine against the infection with Salmonella enteritidis, and cellular basis of immunity. Proc. Japan. Acad. 37, 163-168.
- Mitsuhashi, S., Sato, I. & Tanaka, T. 1961 Experimental salmonellosis. Intracellular growth of Salmonella enteritidis ingested in mononuclear phagocytes of mice, and cellular basis of immunity. J. Bact. 81, 863-868.

  Abstr: B. Ab. 36, 69114; B. Hy. 37, 418; V. B. 31, 3875.
- Miva, F., Marcus, S. & Perkins, E. 1961 Cellular factors in resistance to acute bacterial infection. J. Immunol. <u>86</u>, 526-532. Abstr: Int. Ab. <u>25</u>, 4709.
- Morello, J. A. & Baker, E. E. 1961 Interaction of Salmonella with phagocytes in vitro. (Abstr.) Bact. Proc. 61, 135.

- Morris, B. 1961 The transmission of anti-Salmonella agglutinins from the mother to the young in Erinaceus europaea, with some observations on the active immunization of suckling hedgehogs. Proc. roy. Soc. Ser. B. 154, 369-376. Abstr: B. Ab. 36, 69118; Int. Ab. 23, 4994; B. Hy. 36, 1300; V. B. 31, 3874.
- Nossal, G. J. V. & Makela, O. 1961 Genetic aspects of antibody formation. Lab. Invest. 10, 1094-1109. Abstr: B. Ab. 37, 18923.
- O'Dell, B. L., Nabb, D. P., Garner, G. B. & Regan, W. O. 1961 A salmonellosis resistance factor for the guinea pig. Proc. Soc. exp. Biol., N. Y. 108, 512-513. Abstr: B. Hy. 37, 637; B. Ab. 38, 14839; V. B. 32, 1771.
- Peterson, K. 1961 (Electrophoretic test of protein fractions of blood serum of rabbits immunized with Salmonella pullorum.) Sborn. nauch. Trudov Estonskaya Sel'skokhoz. Akad. 16, 114-119. (G. sum.)
- Peterson, K. & Reek, H. 1961 (Leukocytic blood picture and phagocytic activity in rabbits immunized with Salmonella pullorum.) Sborn. nauch. Trudov Estonskaya Sel'skokhoz. Akad. 18, 56-65. (G. sum.)
- Quesada, A., Izzi, R. & Acone, P. 1960 Studio biochimico e sierologico di 19 ceppi di S. abortus ovis. Atti Soc. ital. Sci. vet. 14, 745-750. (F. & G. sums.)
- Raettig, H. 1961 Tierexperimente zur oralen Immunisierung mit inaktiviertem Antigen (Vorläufige Mitteilung). Zbl. Bakt. I Orig. 182, 525-528. (E. sum.) Abstr: Z. B. 184, 390.
- Raettig, H. & Godglück, G. 1960 Provokation einer Infektion durch Schutzimpfung.
  V. Provokation nach experimenteller Infektion mit mäusadaptiertem Poliomyelitisvirus. Zbl. Bakt. I Orig. 179, 93-112. (E. sum.) Abstr:
  B. Ab. 40, 19892.
- Raettig, H. & Wölk, B. 1961 Provokation einer Infektion durch Schutzimpfung. VI.
  Leukocytenwerte nach subcutaner Immunisierung der Maus. Zbl. Bakt. I Crig.
  182, 294-317. (f. sum.) Abstr: B. Hy. 36, 1299.
- Ravich-Shcherbo, M. I. & Prokopenko, L. G. 1960 Protective effect of preliminary immunization on antibody synthesis in total X-ray irradiation. (Transl.)
  J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 2262-2268. Abstr:
  Int. Ab. 25, 4770.
- Sato, I., Tanaka, T., Saito, K. & Mitsuhashi, S. 1961 Cellular basis of immunity. II. Inhibition of the intracellular multiplication of Salmonella enteritidis in mouse phagocytes of the liver and subcutaneous tissue immunized with live virus. Proc. Japan Acad. 37, 261-266.

### Serology and Experimental Immunology (Cont'd.)

- Sato, I., Tanaka, T., Saito, K. & Mitsuhashi, S. 1961 (Studies on experimental typhoid. 8c) Intracellular inhibition of the growth of S. typhi murium, S. cholerae suis, and E. coli 0-55 in mononuclear phagocytes from the abdominal cavity of mice super-immunized with live Salmonella enteritidis vaccine.) Jap. J. Bact. 16, 877-886.
- Shirono, S. 1961 (Studies on immunity of experimental typhoid in immature mice.)

  Jap. J. Bact. 16, 330-335. Abstr: B. Ab. 37, 14774.
- Sieburth, J. M. 1957 Indirect hemagglutination studies on salmonellosis of chickens. (Abstr.) Virginia J. Sci. 8, 343-344.
- Skavronskaya, A. G. 1961 (Protein fractions of dysentery and paratyphoid (Breslau) bacilli and their serological analysis.) J. Microbiol., Moscow 32 (10), 72-77.
- Solov'eva, V. S. 1961 (Preparation of single receptor agglutinating sera.)
  Trudy nauchno-kontrol. Inst. vet. Preparatov 9, 123-129.
- Sterzl, J. 1960 Study of antibody formation by the use of metabolic inhibitors.

  I. The effect of 6-mercaptopurine on specific immune reactions. Folia
  Microbiol., Prague 5, 364-373. Abstr: B. Ab. 37, 6514; Z. B. 181, 353.
- Sterzl, J., Kostka, J. & Lanc, A. 1959 A bactericidal substance not dependent on complement. II. The relation of bactericidin to the properdin-complement system. Folia Microbiol., Prague 4, 280-285. Abstr. B. Ab. 37, 6567.
- Sterzl, J., Trnka, Z. & Holub, M. 1959 Attempts to influence antibody formation and resistance to infection in newborn animals by vitamin B<sub>12</sub>. Folia Microbiol., Prague 4, 298-307. Abstr: B. Ab. 37, 6515.
- Sultzer, B. M. & Freedman, H. H. 1961 Increase in nonspecific resistance to infection in mice following administration of staphylococcal extracts. Proc. Soc. exp. Biol., N. Y. 107, 60-63. Abstr: B. Hy. 37, 439; V. B. 31, 3835.
- Sussdorf, D. H. 1961 Rise of antibody titre in cell-free spleen preparations incubated in vitro. Nature, Lond. 191, 770-772. Abstr: Int. Ab. 24, 2963.
- Yoshioka, T. & Oka, Y. 1961 (Studies on prevention of infection. II. Study on the toxic character and preventive activity of fractions obtained ultracentrifugally from growth cells of S. enteritidis.) Jap. J. Bact. 16, 510-515.

### Distribution of Types

- Aksoycan, N. 1960 The types of salmonellae and shigellae strains isolated in Ankara between the years of 1955-1960. Turk. Bull. Hyg. exp. Biol. 20, 452-456.
- Le Noc, P. 1961 Bilan actuel des serotypes de salmonelles a Madagascar. Arch. Inst. Pasteur Madagascar 29, 9-13. Abstr: B. Ab. 38, 14507; Z. B. 184, 474.
- Lutz, A. & Grad, C. 1961 (Data on the varieties and the antibiotypes of Salmonella and Escherichia coli pathogenic for infants isolated in the department of Bas-Rhin in 1959, 1960 and 1961 (first half year). Strasbourg-med. 12, 825-836.
- Maroja, R. C., Freitas, E. N. & Cruz, F. M. 1959 Tipos de Salmonella isolados na zona da Mata de Pernambuco, 1956-1958. Rev. Serv. Saude publ., Rio de J. 10, 759-763. Abstr: B. Ab. 38, 2505.
- Moran, A. B. 1961 Salmonella and Arizona cultures from agricultural sources: 1959. Avian Diseases 5, 147-149.
- Müller, G. 1961 Salmonellabefunde in der Elbe bei Hamburg in den Jahren 1954 bis 1959. Städtehyg. 12(2), 24-27. Abstr: B. Hy. 36, 517; Z. B. 182, 169.
- Oles, A. & Raszkowska, U. 1959 (Unusual Salmonella strains isolated in Rzeszow Province.) Przegl. epidem. 13, 169-171. Abstr: Z. B. 180, 532.
- Sakazaki, R. 1961 The occurrence and distribution of Salmonella and Arizona in Japan. Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960 pp. 306-309. Abstr: V. B. 32, 1371.
- Seeliger, H. P. R., Hofmann, S. & Rohde, R. 1961 Jahresbericht über die Salmonellosen in der Bundesrepublik Deutschland und West-Berlin 1958. Zbl. Bakt. I Orig. 182, 357-403. Abstr: Z. B. 183, 151.
- Seligman, R. 1961 The relative frequency of Arizona strains as compared with other pathogenic Enterobacteriaceae in Israel (Haifa and Northern District). Bull. Res. Counc. Israel Sect. 2 9, 147-151.
- Topolyanskaya, S. I., Fedorova, O. A., Nukhnarevich, A. F., Bronshtein, R. B., Grinberg, Ts. B., Nikolaeva, K. G., Speranskaya, K. I., Ivanova, V. N., Kiseleva, V. P., Vilshanskaya, F. L. & Matveeva, V. N. 1961 (Findings of S. reading.) J. Microbiol, Moscow 32(7), 123.
- Valadao, F. G. 1961 Salmonelas isoladas em Mocambique. An. Serv. Vet. Lourenco Marques 1955-59. No. 7. pp. 43-52. (E. sum.) Abstr: V. B. 32, 2180.
- Van Oye, E. 1960 Repertoire general et revise des Salmonellae du Congo et du Ruanda-Urundi. Mem. Acad. R. Sci. d'outre-mer, Brussels 11(6), 49 pp.
- Van Oye, E. 1961 Liste complete, avec bibliographie, des 163 especes de Salmonella identifies au Congo et au Ruanda-Urundi. Ann. Soc. belge Med. trop. 40, 823-836.

### New Types

- Alin, K., Backelin, B., Bengtsson, E. & Mattsson, I. 1961 A new Salmonella species: Salmonella straengnaes = 11:z10:1,5. Acta path. microbiol. scand. 52, 293-294. Abstr: B. Ab. 38, 22523.
- Brede, H. D. 1961 Salmonella stellenbosch, ein neuer Serotyp (1, 9, 12: z: 1, ?). Zbl. Bakt. I Orig. 181, 415-416. Abstr: Z. B. 181, 467.
- Brede, H. D. 1961 Salmonella woodstock, ein neuer Serotyp. Zbl. Bakt. I Orig. 182, 279-280. Abstr: Z. B. 183, 150.
- Brede, H. D. 1961 Salmonella bellville, ein neuer Serotyp. Zbl. Bakt. I Orig. 183, 417-418. Abstr: Z. B. 184, 470.
- Brede, H. D. 1961 (Salmonella stellenbosch: a new serotyp.) S. Afr. med. J. 35, 267-268. Abstr: B. Hy. 36, 804; Z. B. 183, 150.
- Brede, H. D. 1961 (Salmonella woodstock, a new serotype (16:z42:1,(5),7).) S. Afr. med. J. 35, 556. Abstr: B. Hy. 36, 1186; Z. B. 184, 470.
- Brede, H. D. 1961 (Salmonella bellville, a further new serotype (16:e,n,x:1,7).) S. Afr. med. J. 35, 768.
- Edwards, P. R., Kauffmann, F. & Fife, M. A. 1961 Four new Salmonella species: S. alamo, S. new-mexico, S. wayne and S. maricopa. Acta path. microbiol. scand. 52, 217-220. Abstr: B. Ab. 37, 6389; Z. B. 184, 470.
- Guinee, P. A. M. & Kampelmacher, E. H. 1961 A new Salmonella type (S. benguella).
  Antonie v. Leeuwenhoek J. Microbiol. 27, 31-32. Abstr: B. Ab. 36, 61001.
- Guinee, P. A. M. & Kampelmacher, E. H. 1961 Four new Salmonella types (S. gambaga, S. kumasi, S. pramiso and S. ashanti) isolated in Ghana. Antonie v. Leeuwenhoek J. Microbiol. 27, 203-205. Abstr: B. Hy. 36, 1186; B. Ab. 37, 14516.
- Guinee, P. A. M., Kampelmacher, E. H. & Willems, H. M. C. C. 1961 I. Three new Salmonella types (S. bilthoven, S. wassenaar and S. bonaire). II. Six new Salmonella types, isolated in Ghana (S. volta, S. agona, S. wa, S. techimani, S. mampong and S. tafo). Antonie v. Leeuwenhoek J. Microbiol. 27, 465-468; 469-472. Abstr: B. Hy. 37, 636; B. Ab. 38, 19064; V. B. 32, 2182.
- Gulasekharam, J., Velaudapillai, T. & Sabanathan, S. 1961 Three new Salmonella types from Ceylon: S. kotte, S. welikade, and S. lanka. Indian J. med. Res. 49, 1-2.
- Kampelmacher, E. H. & Guinee, P. A. M. 1961 Four new Salmonella types (S. tilburg, S. bunnik, S. overschie and S. sterrenbos) isolated in the Netherlands. Antonie v. Leeuwenhoek J. Microbiol. <u>27</u>, 193-195. Abstr: B. Hy. <u>36</u>, 1186; B. Ab. <u>37</u>, 14517; V. B. <u>32</u>, 1377.

### New Types (Cont'd.)

- Kauffmann, F., Fey, H. & Steck, F. 1961 Eine neue Salmonella-species: Salmonella locarno = 57: z<sub>29</sub>: z<sub>42</sub>. Acta path. microbiol. scand. <u>53</u>, 423-424. Abstr: B. Ab. <u>39</u>, 2688.
- Kauffmann, F., Thomas, J. & Van Oye, E. 1961 Eine neue Salmonella- Species mit einem neuen O-Antigen: Salmonella uccle = 54:g,s,t:-. Acta path. microbiol. scand. 52, 201. Abstr: B. Ab. 38, 2258.
- Le Minor, L., Le Noc, P. & Drean, D. 1961 Un nouvel antigene somatique des Salmonella. Ann. Inst. Pasteur 101, 133-134. (E. sum.) Abstr: B. Hy. 36, 1064; B. Ab. 40, 7070.
- Le Minor, L., Le Noc, P., Drean, D. & Charie-Marsaines, C. 1961 Quatre nouveaux serotypes de Salmonella. Bull. Soc. Pat. exot. 54, 164-166. (E. sum.)
  Abstr: B. Hy. 36, 1300; E. Ab. 39, 19458.
- Möbius, L. & Tauchnitz, C. 1961 Über eine im Bezirk Leipzig neu aufgetretene Salmonella-Species 4,12:210:e,n,x. Zbl. Bakt. I Orig. 181, 281-282. Abstr: Z. B. 181, 467.
- Moran, A. B. & Edwards, P. R. 1961 A new Salmonella type: S. lawndale. Int. Bull. bact. Nom. Taxon. 11, 131-132. Abstr: B. Ab. 37, 10199; B. Hy. 37, 213; Z. B. 184, 469.
- Van Oye, E., Le Minor, L. & Moinet, J. 1961 Une nouvelle espece de Salmonella: S. tournai (3, 15: y: z<sub>6</sub>). Ann. Inst. Pasteur 101, 135-136. (E. sum.) Abstr: B. Hy. 36, 1064; B. Ab. 40, 7096.
- Van Oye, E., Van Ros, G. & Herman, F. 1961 Une nouvelle espece de Salmonella en provenance du Congo: Salmonella kivu (6, 7: d: 1, 6). Ann. Inst. Pasteur 100, 812-813. Abstr: B. Ab. 40, 7097.
- Yurack, J. A., Laidley, R. M., Finlayson, M. & Ferguson, M. 1961 A new Salmonella serotype: S. canada (4, 12; b-1, 6). Canad. J. publ. Hlth. 52, 72-77.

### Colonial Morphology

Soekawa, M., Ueda, S., Matsumoto, K. & Izawa, H. 1961 Three distinct colony forms of Salmonella abortus equi. Jap. J. vet. Sci. 23, 255-263. Abstr: B. Ab. 39, 7486; V. B. 32, 2183.

### Physiology

- Anderson, E. S. 1961 Slime-wall formation in the salmonellae. Nature, Lond. 190, 284-285. Abstr: B. Hy. 36, 934; Z. B. 184, 471.
- Armstrong, F. B. & Wagner, R. P. 1961 Biosynthesis of valine and isoleucine. IV. Alpha-hydroxy-beta-keto acid reductoisomerase of Salmonella. V. Electrophoretic studies on the reductoisomerase and reductase of Salmonella. J. biol. Chem. 236, 2027-2032; 3252-3256. Abstr: B. Ab. 36, 64837; Int. Ab. 24, 176; 25, 4243.
- Bayne, H. G. & Stokes, J. L. 1961 Amino acid metabolism of salmonellae. J. Bact. 81, 126-129. Abstr: Int. Ab. 23, 1063.
- Birger, M. O. 1961 (Decarboxylase of amino-acids in microbes of the Salmonolla genus. II.) J. Microbiol., Moscow 32(9), 125-130.
- Brisou, J. & Cadeillan, J. 1961 Adaption d'une Salmonella au milieu marin.

  Modifications observees. Retour a la normale apres passage sur l'animal.

  C. R. Soc. Biol., Paris 155, 98-101. Abstr: B. Hy. 37, 305; Int. Ab.

  25, 4866; 2. B. 183, 157.
- Clarke, C. H. 1961 The properties of an arginine auxotroph of Salmonella typhimurium. Experientia 17, 499-501. Abstr: Int. Ab. 25, 3098.
- Compagnucci, M. 1961 Ricerche sull'ossidazione degli aminoacidi de parte della S. pullorum. Zooprofilassi 16, 681-685. (E. sum. p. 750).
- Doy, C. H., Rivera, A., Jr. & Sriniyasan, P. R. 1961 Evidence for the enzymatic synthesis of N-(51 phosphoribosyl) anthranilic acid, a new intermediate in tryptophan biosynthesis. Biochem. biophys. Res. Commun. 4, 83-88.

  Abstr: B. Ab. 36, 27642.
- Dyatlov, F. G. 1961 (A comparative study of the dehydrase activity of antibiotic-sensitive and antibiotic-resistant Breslau bacilli isolated from patients.) Antibiotiki 6, 521-526.
- Edebo, L. & Holme, T. 1961 Preparation of biologically active fractions from Salmonella typhimurium. 2. Disintegration of pathogenic microorganisms. Acta path. microbiol. scand. 51, 173-178. Abstr: B. 4b. 36, 57440; Int. Ab. 23, 1058; V. B. 31, 2081.
- Engelsberg, E., Watson, J. A. & Hoffee, P. A. 1961 The glucose effect and the relationship between glucose permease, acid phosphatase and glucose resistance. Cold Spr. Harb. Symp. quant. Biol. 26, 261-276.
- Esselmann, M. T. & Liu, P. V. 1961 Locithinase production by gram-negative bacteria. J. Bact. 81, 939-945.
- Fukasawa, T. & Nikaido, H. 1961 Galactose-sensitive mutants of Salmonella, II. Bacteriolysis induced by galactose. Biochim. biophys. Acta 48. 470-483. Abstr: Int. Ab. 23. 4356; B. Ab. 38, 2303.

### Physiology (Cont'd.)

- Galaev, Iu. V. & Khomik, S. R. 1960 A preparation with arginine decartoxylase activity obtained from Salmonella typhimurium and its experimental action. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 1556.
- Georgescu, V., Taga, L., Moraru, E., Gogoasa, V. & Stamatin, N. 1959 (Studies on the respiratory metabolism of the species Pasteurella animalium and of several species of the genus Salmonella.) Lucr. Inst. Pat. Igiene anim., Bucuresti 9, 176-175 (sic). (R. & F. sums.) Abstr: B. Ab. 36, 85179.
- Hudnik-Plevnik, T. A. & Simic, M. M. 1961 Quantitative changes in the base composition of deoxyribonucleic acid (DNA) extracted from ultraviolet irradiated Salmonelia typhimurium. Bull. Inst. nuclear Sci. "Boris Kidrich", Belgrade (11), 231-233. Abstr: B. 4b. 40, 17362.
- Hudnik-Plevnik, T. & Stocken, L. A. 1961 Chromatography of <sup>32</sup>P-labelled deoxyribonucleic acid, synthesized in Salmonella typhimurium after ultraviolet irradiation. Biochem. J. <u>79</u>, 7P.
- Hudnik-Plevnik, T. & Stocken, L. A. 1961 Chromatography and nucleotide sequences of deoxyribonucleic acid synthesized in Salmonella typhimurium after irradiation with ultra-violet. Nature, Lond. 192, 554-555. Abstr: Int. Ab. 25, 2831.
- Husain, M. M. S., Ahmed, S. & Ahmed, I. H. 1958 Growth studies of pathogenic micro-organisms on media containing horse globulins. Pakist. J. med. Res. 1, 10-15. Abstr: B. Ab. 40, 11637.
- Jackson, S. & Morris, B. C. 1961 Enhancement of growth of Pasteurella pestis and other bacteria in serum by the addition of iron. Brit. J. exp. Path. 42, 363-368. Abstr: B. Ab. 36, 85264.
- Johne, H. 1961 Die Vermehrung der Salmonellen bei tiefen Temperaturen. Inaug. Diss., Munich pp. 40. Abstr: V. B. 32, 4045.
- Kalle, G. P. & Gots, J. S. 1961 Kanthylic pyrophosphorylase of Salmonella typhimurium. (Abstr.) Fed. Proc. <u>20</u>, 358.
- Kalle, G. P. & Gots, J. S. 1961 Antagonisms between purines and purine analogues in auxotrophs of Salmonella typhimurium. J. Bact. 81, 331-337. Abstr: B. Ab. 36, 57063; Int. Ab. 25, 1083.
- Kalle, G. P. & Gots, J. S. 1961 Mechanism of resistance to 2,6-diaminopurine in Salmonella typhimurium. Biochim. biophys. Acta 51, 130-137. Abstr: Int. Ab. 24, 5054; B. Ab. 39, 2742.
- Kalle, G. P. & Gots, J. S. 1961 Alterations in purine nucleotide pyrophosphorylases and resistance to purine analogues. Biochim. biophys. Acta 53, 166-173. Abstr: Int. Ab. 25, 2309; B. Ab. 39, 11182.
- Kashkin, P. N., Drozdov, A. I., Konev, Y. E. & Sluvko, A. L. 1961 (The biochemical activity, serological and pathogenic properties in antibiotic-resistant variants of paratyphus and dysenteria bacteria and Escherichia coli.) Antibiotiki <u>6</u>, 58-67.

### Physiology (Cont'd.)

- Kjeldgaard, N. O. 1961 The kinetics of ribonucleic acid and protein formation in Salmonella typhimurium during the transition between different states of balanced growth. Biochim. biophys. Acta 49, 64-76. Abstr: B. Ab. 36, 81038; Int. Ab. 23, 4497.
- Kolev, K. 1960 (Aerated deep culture method. I. Behaviour of Salmonella cholerae-suis.) Nauch. Trud. vet. Inst. zaraz. parazit. Bolesti, Sofia 2, 329-335. (E. sum.)
- Kolukanov, I. E. 1961 (Resistance of antibiotic-sensitive and antibiotic-adapted microorganisms of the intestinal-typhoid group to the action of physico-chemical factors.) Antibiotiki <u>6</u>, 731-735.
- Lang, W. & Böhm, E. 1961 Untersuchungen über die Thermolabilität der Bakterienkatalase. Blochem. Z. 335, 75-85. Abstr: Int. Ab. 25, 2403.
- Lark, K. G. 1961 Variations in bacterial acid-soluble deoxyribotides during discontinuous deoxyribonucleic acid synthesis. Biochim. biophys. Acta 51, 107-116. Abstr: Int. Ab. 24, 4598.
- Levin, A. P. & Magasanik, B. 1961 The effect of purines on the formation of two enzymes involved in purine biosynthesis. J. biol. Chem. 236, 184-188.

  Abstr: B. Ab. 36, 24673; Int. Ab. 22, 330.
- Loper, J. C. & Adams, E. 1961 Purification of histidinal dehydrogenase from Salmonella. (Abstr.) Fed. Proc. 20, 254.
- Martin, R. G. & Ames, B. N. 1961 Method for determining sedimentation behavior of enzymes: application to protein mixtures. J. biol. Chem. 236, 1369-1376.

  Abstr: Int. Ab. 23, 4472.
- Martin, W. R., Frigan, F. & Bergman, E. H. 1961 Noninductive metabolism of itaconic acid by Pseudomonas and Salmonella species. J. Bact. <u>82</u>, 905-908. Abstr: B. Ab. <u>38</u>, 2307.
- Nikaido, H. 1961 Galactose-sensitive mutants of Salmonella. I. Metabolism of galactose. Biochim. biophys. Acta 48, 460-469. Abstr: Int. Ab. 23, 4356.
- Nikaido, H. & Jokura, K. 1961 Isolation of cytidine diphosphate 3, 6-dideoxyhexoses from Salmonella. Biochem. biophys. Res. Commun. 6, 304-309.
- Nowotny, A. 1961 Chemical structure of a phosphomucolipid and its occurrence in some strains of Salmonella. J. Amer. chem. Soc. 83, 501-503.
- Pietkiewicz, K. 1961 Some data on the biochemical character of 4,752 Salmonella cultures. Bull. Inst. mar. Med. Gdansk 12, 187-190.
- Polanetzki, U. & Brandis, H. 1961 Das Ornithinspaltungsvermögen der Paratyphus B-Lysotypen. (Abstr.) Zbl. Bakt. I Ref. 178, 71.
- Polanetzki, U. & Brandis, H. 1961 Über das Ornithinspaltungsvermögen der Paratyphus-B-Lysotypen. Zbl. Bakt. I Orig. 181, 220-223. (E. sum.)

  4bstr: Z. B. 181, 465.

### Physiology (Cont'd.)

- Richmond, M. & Kjeldgaard, N. O. 1961 Cytochrome c from Salmonella typhimurium.

  Acta chem. scand. 15, 226-227. Abstr: Int. Ab. 23, 278.
- Shibazaki, K. 1961 (Glycine and serine metabolism in mutant strains of Salmonella typhimurium (1406). I.) Jap. J. Bact. 16, 216-220.
- Shiga, K., Shimbayashi, K. & Yonemura, T. 1961 (Studies on accumulation of citric acid by Salmonella pullorum (Nakamura).) Bull. Nat. Inst. Anim. Hlth., Tokyo No. 38, 107-114. (E. sum.) Abstr: B. Ab. 36, 45296.
- Smith, C. G. 1961 Deoxyribokinase in Salmonella schottmuelleri. J. Bact. 81, 328-329. Abstr: B. Ab. 36, 38138.
- Smith, O. H. 1961 Biochemical studies on tryptophan synthesis in bacteria. (Abstr.) Diss. Abstr. 22, 1393-1394. Abstr. B. Ab. 38, 14596.
- Stokes, J. L. & Bayne, H. G. 1961 Oxidative assimilation of amino acids by salmonellae in relation to growth rate. J. Bact. 81, 118-125. Abstr: B. Ab. 36, 27687; Int. Ab. 23, 1062.
- vörös, S., Angyal, T., Nemeth, V. & Kontrohr, T. 1961 The occurrence and significance of phosphatase in enteric bacteria. Acta microbiol. Acad. Sci. hung. 8, 405-409. Abstr: B. Ab. 39, 2723.
- Watanabe, Y., Wilson, C. M. & Wampole, L. 1961 Biochemical variant of Salmonella enteritidis which utilizes sucrose. J. Bact. <u>81</u>, 1007. Abstr: B. Ab. 36, 68998.

### Culture Media

- Blokhov, V. P. & Gnuchev, N. N. 1961 (On uselessness of Strogov's medium for differentiating saprophytic bacteria of intestinal group from pathogenic ones.)

  J. Microbiol., Moscow 32(3), 69-70.
- Blokhov, V. P. & Gnuchev, N. N. 1961 The unsuitability of Strogov medium test for the differentiation of saprophytic from pathogenic Enterobacteriaceae. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 473-475. Abstr: B. Ab. 39, 15732.
- Castagnoli, B., Piccininno, G. & Russo, G. 1961 Isolamento delle salmonelle dalle uova congelate in terreno Müller-Kauffmann modificato. Atti Soc. ital. Sci. vet. 15, 610-612. (E. sum.) Abstr: V. B. 32, 4050.
- Dixon, J. M. S. 1961 Rapid isolation of salmonellae from faeces. J. clin. Path. 14, 397-399. Abstr: B. Hy. 37, 305; B. Ab. 32, 15735; V. B. 31, 3873.
- Hoag, W. G. & Rogers, J. 1961 Techniques for the isolation of Salmonella typhimurium from laboratory mice. J. Bact. 82, 153-154. Abstr: B. Ab. 37, 2086; V. B. 32, 42.
- Holme, T. & Edebo, L. 1961 Preparation of biologically active fractions of Salmonella typhimurium. 1. Cultivation methods. Acta path. microbiol. scand. 51, 164-172. Abstr: B. Ab. 36, 57441; Int. Ab. 23, 1058; V. B. 31, 2080.
- Hughes, M. H. & Frampton, C. R. B. 1961 A modified deoxycholate citrate medium.
  Mon. Bull. Minist. Hlth. Lab. Serv. 20, 128-129. Abstr: B. Hy. 27, 305.
- Jameson, J. E. 1961 A study of tetrathionate enrichment techniques with particular reference to two new tetrathionate modifications used in isolating salmonellae from sewer swabs. J. Hyg., Camb. 59, 1-13. Abstr: B. Ab. 36, 49609; B. Hy. 36, 934; Int. Ab. 26, 1234; V. B. 31, 2079; Z. B. 183, 156.
- Juhlin, I. & Ericson, C. 1961 A new medium for the bacteriologic examination of stools (LSU-agar). Acta path. microbiol. scand. <u>52</u>, 185-200. Abstr: B. Ab. <u>37</u>, 2088.
- Kirsanov, G. P. 1961 (The optimal solid culture medium from a filtrate of Sarcina lutea for cultivating typhoid, paratyphoid and dysentery bacteria.)
  Lab. Delo (4), 61. Abstr: Referat. Zh., Biol., 1962, No. 48451.
- Margard, W. L. & Litchfield, J. H. 1961 Triple sugar iron-urea agar, a new differential tube medium for confirming Salmonella in mouse fecal samples. (Abstr.) Bact. Proc. 61, 128.
- Montford, J. & Thatcher, F. S. 1961 Comparison of four methods of isolating salmonellae from foods, and elaboration of a preferred procedure. J. Food Sci. 26, 510-517. Abstr: B. Ab. 37, 14636.
- Nikodemusz, E. 1961 Utilisation de differents composes carbones simples par les enterobacteries et les bacteries chromogenes dans un milieu nutritif synthetique. Arch. Inst. Pasteur Tunis 38, 65-72. Abstr: B. Ab. 37, 2064; Z. B. 184, 504.

### Culture Media (Cont'd.)

- Rozenfel'd, D. B. 1961 Use of TTC-broth for more rapid diagnosis of coli-enteritis. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 271-276. Abstr: Int. Ab. 26, 5598.
- Taylor, W. I. 1961 Isolation of salmonellae from food samples. V. Determination of the method of choice for enumeration of Salmonella. Appl. Microbiol. 9, 487-490. Abstr: B. Ab. 38, 2651; B. Hy. 37, 885.
- Taylor, W. I. & Silliker, J. H. 1961 Isolation of salmonellae from food samples. IV. Comparison of methods of enrichment. Appl. Microbiol. 9, 484-486. Abstr: B. Ab. 38, 2652; B. Hy. 37, 885; V. B. 32, 1374.
- Yamamoto, R., Sadler, W. W., Adler, H. E. & Stewart, G. F. 1961 Comparison of media and methods for recovering Salmonella typhimurium from turkeys.

  Appl. Microbiol. 2, 76-80. Abstr: B. Ab. 36, 31411; B. Hy. 36, 1004; Z. B. 181, 465.

### Effect of Antibiotics

- Chernomordik, A. B., Kovalenko, A. D. & Andreenko, L. M. 1961 (Sensitivity of Salmonella to some antibiotics and nitrofuran preparations.) Antibiotiki 6, 735-738.
- Cluzel, R., Michel, J., Vaurs, R. & Cluzel-Nigay, M. 1961 Etude compares de l'effet bactericide des associations d'antibiotiques a base de colistine sur les enterobacteriacees et pseudomonadacees. Ann. Inst. Pasteur 101, 203-210. (E. sum.) Abstr: B. Hy. 37, 198; Int. Ab. 24, 5679; B. Ab. 40, 11964; V. B. 31, 3537.
- Courtieu, A.-L., Monnier, J.-J., De Lajudie, P. & Guillermet, F. N. 1961 Spectre antibacterien de la colistine vis-a-vis de 1200 souches. Ann. Inst. Pasteur Suppl. 4, 14-31. Abstr: B. Ab. 40, 11971.
- Fleischhauer, G. 1960 Über Resistenzprüfungen und klinische Erfahrungen mit Colistin. Dtsch. med. Wschr. 85, 1717-1719. Abstr: Z. B. 181, 281.
- Ginoza, H. S. & Landman, O. E. 1961 High-efficiency conversion of Salmonella paratyphi B and its penicillin-resistant mutants to two different L-form types. (Abstr.) Bact. Proc. 61, 82.
- Kageyama, K. 1961 (Studies on the mechanism of development of L-form in salmonellae.) Jap. J. Bact. 16, 142-149. Abstr: B. Ab. 36, 81033.
- Kiser, J. S. 1961 Increasing the effectiveness of antibiotics as chemotherapeutic agents. Antibiot. & Chemother. 11, 261-266. Abstr: B. Ab. 36, 65409; V. B. 31, 3071.
- Köser, A. & Von Sprockhoff, H. 1960 Der Einfluss der Antibiotika auf den Nachweis von Seuchenerregern durch die bakteriologische Untersuchung. Mh. Tierheilk. 12, 322-335. Abstr: Z. B. 182, 569; V. B. 31, 2120.
- Kolukanov, I. E. 1961 (The preservation of resistance to antibiotics in microorganisms of the intestinal-typhoid group in river water.) Antibiotiki 6. 352-356.
- Kudlai, D. G., Solovev, N. N. & Prozorovskii, S. V. 1961 (Penicillin protoplasts of intestinal bacteria.) J. Microbiol., Moscow 32(3), 22-28. Abstr: Ab. S. M. 5, 3247.
- Kudlai, D. G., Solov'yev, N. N. & Prozorovskii, S. V. 1961 Penicillin protoplasts of Escherichia coli. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 417-423. Abstr: B. Ab. 39, 15283.
- Lambelin, G. 1961 Activite de la kanamycine seule ou associee a la penicilline, sur des souches d'enterobacteriacees d'origine animale. Ann. Med. vet. 105. 464-478. Abstr: V. B. 32, 2172.
- Magnavita, M. & Rocha, H. 1961 (Sensitivity of bacteria of the Salmonella genus to combinations of antibiotics.) Rev. bras. Med., Rio de J. 18, 255-257.

### Effect of Antibiotics (Cont'd.)

- Manten, A., Kampelmacher, E. H. & Guinee, P. A. M. 1961 Frequency of resistance to chloramphenical and tetracyclines among 12014 Salmonella strains isolated in 1958 and 1959. Antonie v. Leeuwenhoek J. Microbiol. 27, 103-109. Abstr: B. Ab. 36, 61373; B. Hy. 36, 1063; V. B. 31, 3498.
- Manten, A., Kampelmacher, E. H. & Guinee, P. A. M. 1961 Incidence of resistance to chloramphenical and tetracyclines among 11981 Salmonella strains isolated in 1960. Antonie v. Leeuwenhoek J. Microbiol. 27, 461-464. Abstr: B. Ab. 39, 11536; B. Hy. 37, 872; V. B. 32, 2181.
- Nestoresco, N., Alexenco, E., Georgesco, C., Tupa, S., Szegli, L. & Caffe, I. 1961 (Characteristics of the antibiotic resistance of certain strains of Staphylococcus and Salmonella isolated from patients undergoing antibiotic treatments.) Arch. roum. Path. exp. Microbiol. 20, 381-385.
- Pikovskaia, R. I., Rikhiladze, S. L. & Gelashvili, M. G. 1960 Features of typhoid, paratyphoid and dysentery bacilli isolated from patients treated with synthomycin. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 1258-1262. Abstr: Int. Ab. 24, 3205; Ab. S. M. 5, 127; B. Ab. 36, 65174.
- Ramsey, C. H. & Edwards, P. R. 1961 Resistance of salmonellae isolated in 1959 and 1960 to tetracyclines and chloramphenicol. Appl. Microbiol. 9, 389-391. Abstr: B. Ab. 37, 6641; Z. B. 184, 255; V. B. 32, 675.
- Rolinson, G. N. & Stevens, S. 1961 Microbiological studies on a new broadspectrum penicillin, "Penbritin". Brit. med. J. 2, 191-196. Abstr: B. Hy. 36, 1285.
- Rzewnis, K., Roslik, D. & Wieclawek, B. 1960 (Studies on the synergistic effect of tetracyline and erythromycin.) Med. dosw. mikrobiol. 12, 411-416.

  Abstr: Z. B. 181, 306.
- Stewart, G. T., Coles, H. M. T., Nixon, H. H. & Holt, R. J. 1961 "Penbritin": an oral penicillin with broad-spectrum activity. Brit. med. J. 2, 200-206. Abstr: B. Hy. 36, 1286.
- Thatcher, F. S. & Loit, A. 1961 Effect of chlortetracycline on the microflora of poultry with special reference to salmonellae. Canad. J. publ. Hith. 52, 32-33.
- Töreci, K. 1961 (Sensitivity of bacteria to kanamycin.) Rev. Fac. Med. Univ. Istanbul 24, 561-566. Abstr: B. Hy. 37, 872.
- Wick, W. E., Streightoff, F. & Holmes, D. H. 1961 Guide to antibiotic therapy of experimental bacterial infections in mice. J. Bact. <u>81</u>, 233-235.
- Zajc-Satler, J. 1961 (The sensibility of pathogenic intestinal microorganisms to some antibiotics and sulphadiazine in vitro.) Zdrav. Vestn. 30, 250-254. (£. sum.) Abstr: B. Hy. 37, 1084.

### Effect of Chemical Antibacterial Agents

- Brodhage, H. 1961 Über die Sensibilität von Salmonellen auf Madribon. Cath. Microbiol., Basel 24, 363-369. (E. sum.) Abstr: B. Ab. 37, 2,70; B. Hy. 37, 213; Z. B. 184, 256.
- Brodhage, H. & Stofer, A. R. 1961 Polyoxymethyleneurea, a new type of locally applicable chemotherapeutic agent. Antibiot. & Chemother. 11, 205-206. Abstr: Z. B. 182, 563.
- Clarkson, R. & Martin, A. R. 1961 4-Sulphanilamido-6-methoxy and 6-ethoxy pyrimidine (I.C.I. nos. 32,525 and 33,536): two new long-acting sulphonamides. Nature, Lond. 192, 523-524. Abstr: Int. Ab. 25, 3224.
- Hall, C. F. & Cartrite, H. T. 1961 Observations on strains of Salmonella gallinarum apparently resistant to furazolidone. Avian Diseases 5, 382-392. Abstr: V. B. 32, 2178.
- Kalle, G. P. & Gots, J. S. 1961 Mechanism of resistance to 2,6-diaminopurine in Salmonella typhimurium. Biochem. biophys. Res. Commun. 5, 130-137.
- Mitrovic, M., Matisheck, P. H. & Lynch, L. C. 1961 The chemotherapeutic activity of 3,5-dinitrobenzamide. I. Against paratyphoid in turkeys. Avian Diseases 5, 5-10. Abstr: V. B. 32, 43.
- Nicolle, J. & Walle, J. 1961 Action des antipodes optiques de la norleucine sur la croissance de Salmonella enteritidis typhimurium et d'Escherichia coli Monod. C. R. Acad. Sci., Paris 252, 3339-3340. Abstr: Int. Ab. 23, 5201.
- Ortenzio, L. F., Opalsky, C. D. & Stuart, L. S. 1961 Factors affecting the activity of phenolic disinfectants. Appl. Microbiol. 2. 562-566. Abstr: B. Ab. 38, 2655; B. Hy. 37, 625.
- Roemmele, O. & v. d. Wall, G. 1961 Experimentelle vergleichende bakteriologische Untersuchungen über die bakteriziden Eigenschaften von Sauren, insbesondere von Essig, gegenüber Salmonellen und anderen Bakterien. Arch. Lebensmittelhyg. 12, 61-65. Abstr: Z. B. 184, 92.
- Sato, S., Yoshida, I. & Kuwahara, S. 1960 On the desoxycholate-sensitive strains of Salmonella pullorum. Jap. J. Microbiol. 4, 419-431.
- Skagius, K. & Zetterberg, D. 1961 Potential chemotherapeutics. IV. Effect of certain 2-(5-nitro-2-furyl)-5-amino-1.3.4-thiadazoles in vitro. Antibiot. & Chemother. 11, 37-45. Abstr: Int. Ab. 22, 5409.
- Williamson, G. T. 1961 Preliminary observation on a new chemotherapeutic, "Enterol", and its possible uses in the treatment of salmonellosis. N. Z. vet. J. 2, 75-76. Abstr: V. B. 32, 682.

### Effect of Other Antibacterial Agents

- Bonaduce, A. & Compagnucci, M. 1961 Azione del lisozima sulla Salmonella pullorum. Atti Soc. ital. Sci. vet. 14, 536-538. (E. sum.)
- Delaunay, A., Henon, M. & Pelletier, M. 1960 Inhibition du metabolisme respiratoire de diverses bacteries par un polypeptide d'origine tissulaire. Rev. franc. Etudes clin. biol. 5. 187-189. Abstr: B. Ab. 38, 14535.
- Hashimoto, K. 1961 (Studies on the bactericidal action of the incubated egg, with special reference to Salmonella pullorum and S. senftenberg. 1. Examination of experimental conditions. 2. The bactericidal action of humours in embryonated eggs.) Jap. J. Bact. 16, 419-423; 447-451. Abstr: B. Ab. 37, 15005.
- Steward, J. P. & Roantree, R. J. 1961 Effect of mouse peritoneal fluid on strains of enteric bacilli. Proc. Soc. exp. Biol., N. Y. 108, 654-658. Abstr: B. Ab. 28, 22655.

#### Bacterial Interactions

- Banic, S. 1960 Antagonistische Wirkung von Enterobacteriaceen auf Staphylokokken und Candida albicans. Zbl. Bakt. I Orig. 180, 27-29. Abstr: Z. B. 180, 543.
- Peter, A. 1961 Beziehungen zwischen Darmflora und Resistenz gegenüber Infektionen mit Salmonella typhi-murium. Zbl. Bakt. I Orig. 192, 473-484. (E. sum.)
  Abstr: B. Hy. 37, 306; Z. B. 184, 469; V. B. 32, 351; B. Ab. 40, 24202.
- Wynohradnyk, V. & Cirstet, I. 1960 (The effect of associated infections and the action of some physical factors on swine vaccinated with a lapinized cholera virus.) Lucr. Inst. Pat. Igiene anim., Bucuresti 10, 225-236. (R. & F. sums.) Abstr: B. Ab. 37, 14787.

### Bacteriophage -- General

- Anderson, T. F. 1961 On the fine structures of the temperate bacteriophages P1, P2 and P22. In: Houwink, A. L. & Spit, B. J., eds. The Proceedings of the European Regional Conference on Electron Microscopy. De Nederlandse Vereniging voor Electronemicroscopie, Delft. Vol. II, pp. 1008-1011.
- Bertani, G. 1960 On the interpretation of Boyd's "multiplicity effect" in lysogenization. Virology 12, 132-136. Abstr: 2. B. 180, 393.
- Boyd, J. S. K. & Bidwell, D. E. 1961 The type A phages of Salmonella typhimurium: observations on temperate phage and lysogenesis. J. gen. Microbiol. 26, 443-465. Abstr: B. Ab. 37, 14687; B. Hy. 37, 894; Int. Ab. 27, 1116.
- Ershov, F. I. 1960 Interference between newcastle phages. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 483-489. Abstr: B. Ab. 36, 14611.
- Fey, H., Schweizer, R. & Margadant, A. 1961 Unsere Erfahrungen mit dem polyvalenten Salmonellaphagen 0-1. Versuche zur dessen optimaler Propagation. Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960, pp. 328-331. (E. sum.)
- Gaugusch, 2. 1960 (Experiments on the application of a specific bacteriophage in ducklings affected with salmonellosis.) Rocan. Nauk rol. Ser. E. Vet. Sci. 70, 441-442. (E. sum.) Abstr. B. Ab. 37, 19179.
- Gorienko, I. I. & Goncharova, K. F. 1960 Biological properties of types of enteric phages obtained from the external environment in Rostov-upon-Don. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 1679-1683. Abstr: B. Ab. 37, 14688.
- Hagiwara, S. 1961 (Inactivation of phages of beta-propiolactone.) Sapporo med. J. 20, 16-18. (R. sum.) Abstr: B. Ab. 40, 15675.
- Hoffee, P., Weinberg, R. & Englesberg, E. 1961 Absence of the glucose effect on the frequency of lysogenisation in Salmonella typhimurium. Nature, Lond. 189, 160-161.
- Kallings, L. O. 1961 Studies on the inactivation of bacterial viruses by normal human serum. 6. Comparative studies of various phages and of individual sera of human and animal origin. Acta path. microbiol. scand. <u>52</u>, 273-286. Abstr: Int. Ab. <u>25</u>, 1054; Z. B. <u>184</u>, 355.
- Lenk, V. 1961 Untersuchung über die "In-vitro"-Wirksamkeit eines Bakteriophagen-Bakterienfiltrat-Gemisches (Ein kritischer Beitrag zur Therapie mit Phagen.) Zbl. Bakt. I Ref. 179, 381-383.
- Levine, M. 1961 Effect of mitomycin C on interactions between temperate phages and bacteria. Virology 13, 493-499. Abstr: B. Ab. 36, 53398; B. Hy. 36, 1193; Int. Ab. 24, 5589; Z. B. 183, 462.

### Bacteriophage -- General (Cont'd.)

- Meynell, E. W. 1961 A bacteriophage for motile bacteria. Nature, Lond. 190, 564. Abstr: B. Hy. 36, 1067; Z. F. 183, 461.
- Meynell, E. W. 1961 A phage, ØX, which attacks motile bacteria. J. gen. Microbiol. 25, 253-250. Abstr: B. Ab. 36, 57222; B. Hy. 36, 1311; Int. Ab. 26, 1343.
- Prell, H. H. 1961 Analyse des Lysogenisierungsvorganges im System Salmonella typhi murium Phage P22 mit Hilfe von UV-Bestrahlung. Arch. Mikrobiol. 38, 171-200. (E. sum.) Abstr: 2. B. 180, 392; B. Ab. 40, 11607.
- Robbins, P. W. & Uchida, T. 1961 Identification of glucose as a phage-determined component of Salmonella polysaccharides. (Abstr.) Fed. Proc. 20, 86.
- Sauerbier, W. 1961 The influence of 5-bromodeoxyuridine substitution on UV sensitivity, host-cell reactivation, and photoreactivation in T1 and P22H5. Virology 15, 465-472. Abstr: B. Ab. 38, 14787; Z. B. 184, 352.
- Scholtens, R. T. 1961 Das Auftreten vor Bakteriophagen in Mischkulturen von Salmonella paratyphi B-Stämmen. (Abstr.) Zbl. Bakt. I Ref. 178, 70.
- Tucker, R. G. 1961 The role of magnesium ions in the growth of Salmonella phage anti-R. J. gon. Microbiol. 26, 313-323. About: B. Hy. 32, 217.
- Vetake, H. & Hagiwara, S. 1961 Genetic cooperation between unrelated phages.
  Virology 13, 500-506. Abstr: B. Ab. 36, 61061; B. Hy. 36, 1194; Int. Ab. 24, 5587; Z. B. 183, 462.
- Uetake, H., Hagiwara, S. & Makino, T. 1961 (Mechanism of antigenic conversion after exposure to antibacterial serum.) Sapporo med. J. 20, 12-15. (d. sum.) Abstr: B. Ab. 40, 15684.
- Yamamoto, N. & Anderson, T. F. 1961 Genomic masking and recombination between serologically unrelated phages P22 and P221. Virology 14, 430-439. Abstr: B. Ab. 36, 81227; B. Hy. 36, 1311.
- Zinder, N. D. 196! A bacteriophage specific for F- Salmonella strains. Science 133, 2069-2070. Abstr: B. Hy. 37, 94; B. Ab. 37, 14686; Int. Ab. 25, 3160.

### Bacteriophage Typing

- Anderson, E. S. & Wilson, E. M. J. 1961 Die Bedeutung der Salmonella typhi murium Phagentypisierung in der Human- und Veterinärmedizin. (Abstr.) Zbl. Bakt. I Ref. 178, 71.
- Anderson, E. S. & Wilson, E. M. J. 1961 Die Bedeutung der Salmonella typhi murium-Phagen-Typisierung in der Human- und Veterinarmedizin. Zbl. Bakt. I Orig. 181, 368-373. (E. sum.) Abstr: B. Hy. 36, 700; Z. B. 181, 464; V. B. 31, 2439; B. Ab. 40, 24164.
- Bhagwat, P. D. et al. 1961 Bacteriophage typing of Salmonella typhi and Salmonella paratyphi A strains. Indian J. Path. Bact. 4, 83-86.
- Buczowski, Z. 1961 Bemerkung über die Lysotypie von Salm. paratyphi A. (4bstr.) Zbl. Bakt. I Ref. 178, 73.
- El Ghoroury, A. & Messih, A. 1961 Typhoid and paratyphoids "A" and "B" phage types in Alexandria, Egypt, U.A.R. J. Egypt. publ. Hlth. Ass. 36, 207-224. Abstr: B. Ab. 38, 22953; B. Hy. 37, 1200.
- Kunter, E. & Lehmann, W. 1961 Die Verwendung des 0<sub>1</sub> -Phagentestes in der Salmonella-Diagnostik. Arch. exp. VetMed. <u>15</u>, 1012-1017.
- Kurian, P., Kumari, V., Visalakshi, K. & Jambulingam, K. 1959 (?) Phage typing of enteric pathogens. Pasteur Inst. S. India. Rep. Director, 1958, and Sci. Rep., 1959. pp. 94. Abstr: Z. B. 180, 532.
- Milch, H. 1961 Ergebnisse der Lysotypie von S. paratyphi B in Ungarn. (Abstr.) Zbl. Bakt. I Ref. 178, 70.
- Milch, H. & Laszlo, V. G. 1961 Phage-typing of Salmonella paratyphi B. Acta microbiol. Acad. Sci. hung. 8, 311-319. Abstr: B. Ab. 38, 6706.
- Nestorescu, N., Popovici, M., Tupa, S. & Szegli, L. 1961 Beiträge zur Lysotypie der S. paratyphi B mit Hilfe der Phagen des Felix-Callow-Systems, sowie des natürlichen Scholtens-Systems. (Abstr.) Zbl. Bakt. I Ref. 178, 68-69.
- Nestcrescu, N., Popovici, M., Tupa, S. & Szegli, L. 1961 Beitrag zur Lysotypie von S. paratyphi B nach Felix und Callow sowie dem "natürlichen System" von Scholtens. Zbl. Bakt. I Orig. 181, 216-219. Abstr: B. Hy. 36, 599; Z. B. 181, 465; B. Ab. 40, 23900.
- Polanetzki, U. & Reuss, K. 1961 Vergleichende Untersuchungen zur Lysotypie von Salm. paratyphi B nach Felix und Callow und nach Scholtens. Zbl. Bakt. I Orig. 183, 357-367. (E. sum.) Abstr: Z. B. 184, 468.
- Rantasalo, I. & Uotila, B. 1961 (I.) The phage types of Salmonella paratyphi B. Report on 357 human cases. (II.) The phage types of Salmonella typhi murium. Report on 504 human cases. Ann. Med. exp. Fenn. 39, 411-412; 413-414. Abstr: B. Hy. 37, 637.

## Bacteriophage Typing (Cont'd.)

- Rische, H. 1961 Die Bedeutung von Rauhphagen für die Lysotypie von S. paratyphi B. (Abstr.) Zbl. Bakt. I Ref. 178, 69.
- Sant. M. V. 1961 Bacteriophage types of Salmonella typhi and Salmonella paratyphi A as encountered in Bombay City. Indian J. Path. Bact. 4, 87-88.
  - Scholtens, R. T. 1961 The definition of phage types of Salmonella paratyphi B. Int. Bull. bact. Nom. Taxon. 11, 99-100. Abstr: B. Ab. 37, 10202; Z. B. 184, 155.
  - Spano, C. & Gullotti, A. 1961 Phage-typing of S. typhi murium in Italy. (Abstr.) Zbl. Bakt. I Ref. 178, 71-73.
  - Spano, C. & Gullotti, A. 1961 Phage-typing of S. typhimurium in foodborne infections occurred in various areas of Italy. Zbl. Bakt. I Orig. 181, 391-394. Abstr: B. Hy. 36, 700; Z. B. 181, 466.

#### Genetics

- Adye, J. 1961 Effect of nitrous acid on transduction by phage P22 in Salmonella typhimurium. (4bstr.) Bact. Proc. 61, 80.
- Ames, B. N., Martin, R. G. & Garry, B. J. 1961 The first step of histidine biosynthesis. J. biol. Chem. 236, 2019-2026. Abstr: B. Ab. 36, 68940; Int. Ab. 24, 181.
- Beutel, H. 1961 Beitrag zur Frage der Umwandlungsmöglichkeit von Bakterien. Zbl. Bakt. I Orig. 183, 155-159. (E. sum.) Abstr: V. B. 32, 1009.
- Coon, R. G. 1961 Genetic analysis of purine-requiring mutants of Salmonella typhimurium. (Abstr.) Diss. Abstr. 21, 3599-3600.
- Coon, R. G. & Gots, J. S. 1961 Genetic suppression of purine-requiring mutants of Salmonella typhimurium. (Abstr.) Bact. Proc. 61, 97.
- Demerec, M. 1961 The nature of the gene. Amer. J. hum. Genet. 13, 122-127.
  Abstr: B. Ab. 36, 39537.
- Fukasawa, T. & Nikaido, H. 1961 Galactose mutants of Salmonella typhimurium.
  Genetics 46, 1295-1303. Abstr: B. Ab. 38, 14614.
- Fukazawa, Y. 1961 A semiclonally-inherited unstable response following lysogeniation of Salmonella typhimurium with P22 phage. (Abstr.) Bact. Proc. 61, 163.
- Galkina, T. A. 1961 (Electrophoretic study of the composition of protein fractions of the breslau and coli bacilli and of the coli variants obtained by assimilation of products of the breslau bacillus.) Biochemistry, Leningr. 26, 155-159. Abstr: Ab. S. M. 5, 4722; Int. Ab. 24, 2703.
- Galkina, T. A. 1961 An electrophoretic study of the protein fractions of Bacillus breslau and Escherichia coli and of variants of Escherichia coli obtained by assimilation of products of Bacillus breslau. Biochemistry, Leningr. (Transl.) 26, 134-137. Abstr: B. Ab. 36, 85178.
- Gollub, E. G. 1961 Gene-enzyme relationships in the biosynthesis of adenylic acid in Salmonella. (Abstr.) Diss. Abstr. 21, 3592.
- Gollub, E. G. & Gots, J. S. 1961 Genetic and biochemical analysis of adeninespecific auxotrophs of Salmonella typhimurium. (Abstr.) Bact. Proc. 61, 185.
- Hasaka, Y. 1961 (Studies on the mechanism of development of mutable type variants (Murase). I. Isolation of the variants and daughter-cells by the replica plating technique.) Jap. J. Bact. 16. 221-224.
- Hubacek, J. 1961 Phenomic delay in transduction of Salmonella typhimurium cell.
  Nature, Lond. 189, 679-680. Abstr: B. Hy. 36, 700.

### Genetics (Cont'd.)

- Hyatt, E. A. & Bonner, D. M. 1961 Mutation and reversion at the proline locus in Salmonella typhimurium. (Abstr.) Bact. Proc. 61, 186.
- Iino, T. 1961 A stabilizer of antigenic phases in Salmonella abortus-equi. Genetics 46, 1465-1469. Abstr: B. Ab. 39, 2740.
- Iino, T. 1961 Anomalous homology of flagellar phases in Salmonella. Genetics 46, 1471-1474. Abstr: B. Ab. 39, 2741.
- Iino, T. 1961 Genetic analysis of O-H variation in Salmonella. Jap. J. Genet.
  36, 268-275. Abstr: B. Ab. 38, 14621.
- Kaudewitz, F. 1961 Zur Genetik antigener Strukturen von Enterobacteriaceen. Path. Microbiol., Basel 24, 910-931. Abstr: B. Hy. 37, 517; B. Ab. 39, 2743.
- Kudlai, D. G., Petrovskaya, V. G. & Gladilin, K. L. 1961 (Streptomycin resistance transmission by way of desoxyribonucleic acid action upon the protoplasts of sensitive Salmonella.) J. Microbiol., Moscow 32(10), 25-29.
- Landman, O. F. & Ginoza, H. S. 1961 Genetic nature of stable L forms of Salmonella paratyphi. J. Bact. 81, 875-886. Abstr: B. Ab. 36, 69009; B. Hy. 37, 418.
- Lederberg, J. 1961 A duplication of the H<sub>1</sub> (flagellar antigen) locus in Salmonella.

  Genetics 46, 1475-1481. Abstr: B. Ab. 39, 2745.
- Le Minor, L., Le Minor, S. & Nicolle, P. 1961 Conversion des cultures de Salmonella schwarzengrund et Salmonella bredeney, depourvues de l'antigine 27, en cultures 27 positives par la lysogenisation. Ann. Inst. Pasteur 101, 571-589. (£. sum.) Abstr: Int. Ab. 25, 3161; B. Hy. 37, 983; B. Ab. 40, 2698.
- Levine, M. & Curtiss, R. 1961 Genetic fine structure of the C region and the linkage map of phage P22. Genetics 46, 1573-1580. Abstr: B. Ab. 39, 2746.
- Loper, J. C. 1961 Enzyme complementation in mixed extracts of mutants from the Salmonella histidine B locus. Proc. nat. Acad. Sci., Wash. 47, 1440-1450. Abstr: Int. Ab. 25, 3829.
- Margolin, P. & Mukai, F. H. 1961 The pattern of mutagen-induced back mutations in Salmonella typhimurium. Z. Vererbungslehre 92, 330-335.
- Mitsuhashi, S., Harada, K. & Kameda, M. 1961 On the drug-resistance of enteric bacteria. 6. Spontaneous and artificial elimination of transmissible drug-resistance factors. Jap. J. exp. Med. 31, 119-123. Abstr: B. Ab. 36, 76840.
- Nikaido, H. & Fukasawa, T. 1961 The effect of mutation in a structural gene on the inducibility of the enzymes controlled by genes of the same operon. Biochem. biophys. Res. Commun. 4, 338-342.

## Genetics (Cont'd.)

- Ørskov, F., Ørskov, I. & Kauffmann, F. 1961 The fertility of Salmonella strains
  determined in mating experiments with Escherichia strains. Acta path.
  microbiol. scand. 51, 291-296. Abstr: B. Ab. 36, 61058; Int. Ab. 24,
  915; Z. B. 182, 455.
- Ozeki, H. & Howarth, S. 1961 Colicine factors as fertility factors in bacteria. Salmonella typhimurium strain LT2. Nature, Lond. 190, 986-988. Abstr: B. Hy. 37, 88; Int. Ab. 24, 3943.
- Prokhorov, M. I. 1961 (Some properties of bacteria No. 5170 causing typhus in murine rodents, experimentally derived from Escherichia coli.) Trudy Inst. Mikrobiol. Akad. Nauk SSSR (10), 138-142. Abstr: B. Ab. 39, 7459.
- Rothenberg, I. 1961 Gene transfer between Shigella flexneri and salmonellae. (Abstr.) Bact. Proc. 61, 96.
- Rudner, R. 1961 Mutation as an error in base pairing. (I, II.) (Abstr.) Diss. Abstr. 22, 983-984.
- Rudner, R. 1961 Mutation as an error in base pairing. I. The mutagenicity of base analogues and their incorporation into the DNA of Salmonella typhimurium. II. Kinetics of 5-bromodeoxyuridine and 2-aminopurine-induced mutagenesis. Z. Vererbungslehre 92, 336-360; 361-379.
- Sakharov, P. P., Gudkova, E. I., Bureva, V. B. & Fudel', T. N. 1961 Hereditary changes in microbes brought about by the process of acquiring antibiotic and sulfonamide resistance and "dependence". Referat. Zhur., Biol. No. 1B164. (Translated from Agrobiology, Moscow 3, 362-370.) Abstr: B. Ab. 36, 49145.
- Schneider, H., Formal, S. B. & Baron, L. S. 1961 Experimental genetic recombination in vivo between Escherichia coli and Salmonella typhimurium. J. exp. Med. 114, 141-148. Abstr: B. Ab. 36, 69014; B. Hy. 36, 1064; Int. Ab. 24, 3942.
- Skavronskaya, A. G. & Pokrovskii, V. N. 1961 (The mutagenic effect of 5-bromuracil on Salm. typhimurium.) Bull. Acad. med. Sci., Moscow 16(12), 84-86.

  Abstr: B. Ab. 40, 23870.
- Smith, D. A. 1961 Some aspects of the genetics of methionineless mutants of Salmonella typhimurium. J. gen. Microbiol. <u>24</u>, 335-353. Abstr: B. Ab. <u>36</u>, 45346; Int. Ab. <u>26</u>, 2159.
- Snyder, R. W. & Schoenhard, D. E. 1961 A high frequency transduction system for galactose in Salmonella gallinarum. (Abstr.) Bact. Proc. 61, 79.
- Stocker, B. A. D., McDonough, M. W. & Ambler, R. P. 1961 A gene determining presence or absence of E-N-methyl-lysine in Salmonella flagellar protein. Nature, Lond. 189, 556-558. Abstr: Int. Ab. 22, 6037.
- Takebe, H. & Hartman, P. E. 1961 Effect of X-rays on transduction by Salmonella typhimurium phage P22. (Abstr.) Bact. Proc. 61, 80.

# Genetics (Cont'd.)

Watanabe, T. & Fukasawa, T. 1961 Episome-mediated transfer of drug resistance in Enterobacteria. I. Transfer of resistance factors by conjugation. II. Elimination of resistance factors with acridine dyes. III. Transduction of resistance factors. J. Bact. 81, 669-678; 679-683; 82, 202-209. Abstr: B. Ab. 36, 57135, 57136; 37, 6465; B. Hy. 37, 306; Int. Ab. 26, 3414.

Winkler, A. 1961 Transduktion. Zbl. Bakt. I Ref. 179, 314-319.

#### Salmonellae in Animals

- Andreeva, A. P. et al. 1961 (Microflora of rodents in Leningrad. II.) J. Microbiol., Moscow 32(9), 133-134.
- Barckhausen, J. 1961 Aufenthalt und Verhalten einer jungen Blässgans mit Mäusetyphus (Salmonella typhi murium.) Dtsch. tierärztl. Wschr. 68, 660. (E. sum.)
- Bojarski, J. 1961 (Rats as carriers of Salmonella in Lublin.) Med. Wet., Warszawa 17, 659-660. (E. sum.) Abstr: V. B. 32, 1768.
- Boveroulle, M. T., Mortelmans, J., Pattyn, S. R. & Verstraete, J. 1961 (Study of the presence of enteric pathogenic organisms in dogs in Antwerp.)

  Arch. belges Med. soc. 19, 510-514. Abstr: B. Ab. 38, 23030.
- Brygoo, E. R. & Le Noc, P. 1961 Note preliminaire sur les salmonelles des cameleons malgaches. Bull. Soc. Pat. exot. 54, 166-169. Abstr: B. Hy. 36, 1300; B. Ab. 39, 19452.
- Burtikashvili, P. S. 1960 (Buffaloes as carrier of paratyphus bacteria.) Trudy vsesoyuz. Inst. vet. Sanit. 17, 42-45. Abstr: V. B. 32, 678.
- Contiu, I., Sofletea, I., Vartic, N., Rusu, M., Muresan, E. & Popa, A. 1961 (Incidence of Salmonella in organs of cattle slaughtered in the Cluj region during 1958-1960.) Probl. zoot. vet., Bucuresti 11(2), 38-42. (F. & R. Sums.)
- Dimow, I., Wesselinoff, W. & Rohde, R. 1961 Salmonellabefall von Landschildkröten (Testudo graeca) in Bulgarien. I. Z. Hyg. InfektKr. 148, 135-141.

  Abstr: Int. Ab. 26, 1277.
- Dozsa, I. 1961 (The sparrow (Passer d. domesticus) as a host of Salmonella typhimurium.) Mag. allator. Lapja 16, 144-145. (E. sum.) Abstr: V. B. 31, 3159.
- Fey, H. & Vallette, H. 1961 Nachweis von Salmonellen in Fluss- und Abwässern sowie bei gesunden Schlachtschweinen in Genf. Schweiz. Arch. Tierheilk. 103, 519-529. (E. sum.) Abstr: B. Ab. 38, 6747; Z. B. 184, 477; V. B. 32, 680.
- Fulton, M., Szafran, P. & Lesko, M. M. 1961 Five less-common Salmonella serotypes from Congo reptiles. Nature, Lond. 189, 240-241. Abstr: B. Ab. 36, 34555; Z. B. 184, 474.
- Henze, B. 1961 Das Auftreten von Salmonellen bei Lachmöven auf Berliner Reiselfeldern. Desinfekt. Gesundheitswes. 53(11), 167. Abstr: Z. B. 184, 477.
- Inoue, C. 1960 A strain of Salmonella enteritidis from a hare. Endemic Dis. Bull.
  Nagasaki Univ. 2, 243. Abstr: Z. B. 183, 156.

### Salmonellae in Animals (Cont'd.)

- Kampelmacher, J. H. & Guinee, P. A. M. 1961 (Salmonella carriers in swine and their importance for meat sanitation.) Proc. 2nd Symp. int. Ass. vet. Food. Hyg., Basel 1960 pp. 258-261. (E. sum.)
- Kauker, E. 1961 Salmonella mbandaka bei einem Kalbe. Arch. Lebensmittelhyg. 12, 235-236. Abstr: Z. B. 184, 471.
- Khan, A. Q. 1961 Isolation of Salmonella salford from a sheep and a goat. Res. vet. Sci. 2, 130-132. Abstr: B. Ab. 37, 10639.
- Klatt, C. H. 1961 (Investigations of Salmonella in poultry in Helsinki.)
  Finsk VetTidskr. 67, 283-285. (G. sum.) Abstr: V. B. 31, 2841.
- Lehnert, C. & Bathke, W. 1961 Schildkröten als latente Salmonellenausscheider. Z. ges. Hyg. Z, 472-474. (E. sum.) Abstr: P. Hy. 36, 1185.
- Leistner, L., Johantges, J., Deibel, R. H. & Niven, C. F. 1961 The occurrence and significance of salmonellae in meat animals and animal by-product feeds. Circ. Amer. Meat Inst. Found. 64, 9-20.
- Linsert, H. & Zimmermann, E. M. 1961 Experimentelle Untersuchungen über das Haften von Salmonellen bei natürlich und künstlich infizierten Enten unter Berücksichtigung lebensmittelhygienischer Belange. Arch. exp. VetNed. 15. 1083-1091.
- Semashko, L. L. 1961 (Isolation of ticks, Salmonella and Shigella from sparrows in Turkmenia.) Zool. Zh. 40, 1070-1078. (E. sum.)
- Sharma, V. K. & Singh, C. M. 1961 Occurrence of salmonellae in domestic animals and poultry. (Abstr.) Indian J. Microbiol. 1, 83.
- Sharma, V. K. & Singh, C. M. 1961 Occurrence of Salmonella sp. in poultry and domestic animals. Indian J. Microbiol. 1, 119-122. Abstr: B. Hy. 37, 636; B. Ab. 38, 23081; Int. Ab. 26, 5601.
- Sharma, V. K. & Singh, C. M. 1961 Occurrence of salmonellae in domestic animals and poultry in India. Nature, Lond. 191, 622-623.
- Slavkov, I. & Vaptsarova, M. 1961 (Carriage of Salmonella by chicks which have recovered from salmonellosis.) Izv. Akad. na Nauk Tsent. Naucknoisled. Vetkhig. Inst. za Zhivotin. Prod. 1, 145-148. (G. sum.)
- Steiniger, F. 1961 Typhus-Paratyphusbakterien bei importierten Reptilen. Dtsch. tierärztl. Wschr. 68, 587-589. (E. sum.)
- Sylwester, K. 1961 (Survival of Salmonella organisms in Calliphora erythrocephala during the developmental cycle.) Weterinariya, Wroclaw 9. 9-31. (E. sum.) Abstr: V. B. 32, 354.

### Salmonellae in Animals (Cont'd)

- Takacs, J., Derzsy, D. & Prohaszka, L. 1961 (The occurrence of Salmonella barielly in poultry and slaughtered animals.) Mag. allator. Lapja 16, 189-190. (£. sum.)
- Takacs, J. & Nagy, B. Gy. 1961 (Salmonella germs in clinically symptomless slaughtered animals showing no pathological lesions.) Mag. allator. Lapja 16, 181-183. (E. sum.)
- Tesink, J. & Jobse, A. S. 1961 (Preliminary investigation about the occurrence of salmonellae in seagulls, pigs and cattle in the Province of Zeeland.)

  Tijdschr. Diergeneesk. 86, 495-498. (E. sum.)
- Thal, E., dutqvist, L. & Karlsson, K.-A. 1961 Salmonella bei Hühnern in Schweden. Proc. 2nd Symp. int. Ass. vet. Food. Hyg., Basel 1960 pp. 250-252. (E. sum.) Abstr: V. B. 32, 1376.
- Thamm, H. 1961 Veterinärhygienische Massnahmen zur Unterdrückung der Gesahren, die von salmonellaverseuchten Schweinegrossbeständen ausgehen. Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960 pp. 302-305. (E. sum.)
- Trawinska, J. 1960 (Serological examination of slaughtered pigs for Salmonella carriers.) Ann. Univ. M. Curie-Sklodowska Sect. DD 13, 41-62. (E. sum.) Abstr: V. B. 31, 1710.
- Trop, I. E. & Chulovskii, L. K. 1960 Infection of grey rats caught in establishments of the catering industry and pig farms with pathogenic organisms of the enteric group. (Transl.) J. Microbiol. Spidemiol. Immunobiol. U.S.S.R. 31, 1755-1756.
- Ueda, S., Sasaki, S., Kabuto, M., Nakata, H., Ono, H. & Morii, T. 1961 (Salmonella organisms isolated from a Japanese native ox involved in sudden death. J. Jap. vet. med. Ass. 14, 49-50. (E. sum.)
- Useche, F., J. A., Trujillo R., R. A. & Ugueto T., C. 1961 Estudios preliminares sobre la incidencia de las salmonellas en perros de Caracas. Rev. vet., venez. 10, 343-347. Abstr: V. B. 32, 41.
- Winkle, S. & Rohde, R. 1961 Über Salmonella-Befall importierter Bandschildkröten. Desinfekt. Gesundheitswes. 53(8), 114. Abstr: Z. B. 184, 474.
- Xavier, V. L. & Castro De Souza, A. 1960 Salmonella newport em bile bovina (isolamento e tipagem). Arq. Inst. Biol. Anim. Rio de J. 2, 109-116. (f. sum.)

#### Salmonellae in Food and Food Products

- Alstrom, I. & Kämpe, A. 1961 (Summary of investigations of the ice cream carried out by the Stockholm Public Health Authority in 1957-1959.) Nord. hyg. Tidskr. 42, 81-99. (E. sum.) Abstr: B. Hy. 36, 1119.
- Anderson, K. & Woodruff, P. 1961 The bacteriological screening of desiccated coconut. Med. J. Aust. 48(1), 856-858. Abstr: B. Hy. 36, 1247.
- Angelotti, R., Foter, M. J. & Lewis, K. H. 1961 Time-temperature effects on salmonellae and staphylococci in foods. I. Behavior in refrigerated foods. II. Behavior at warm holding temperatures. Amer. J. publ. Hlth. 51, 76-82; 83-88. Abstr: B. Ab. 36, 34825; B. Hy. 36, 645.
- Angelotti, R., Foter, M. J. & Lewis, K. H. 1961 Time-temperature effects on salmonellae and staphylococci in foods. III. Thermal death time studies. Appl. Microbiol. 2, 308-315. Abstr: B. Ab. 37, 6789; B. Hy. 37, 260; Z. B. 184, 91.
- Barbuti, S., Pedone, S. & Marino, G. 1961 Sulla ricerca dei batteriofagi enterici ai fini della valutazione igienica dei molluschi eduli. Igiene mod. 54, 587-602. (3. sum.) Abstr: B. Ab. 39, 24265; B. Hy. 37, 1034.
- Berkmen, L. 1960 Über die Haltbarkeit von Krankheitserregern in einem spezifisch türkischen Fleischerzeugnis. Fleischwirtschaft 12, 926. Abstr: Z. B. 102, 157.
- Bischoff, J. 1961 Keime aus der Salmonellagruppe im Känguruhfleisch. Arch. Lebensmittelhyg. 12, 124-125. Abstr: Z. B. 184, 476.
- Bischoff, J. 1961 Muss die Einfuhr von Känguruhfleisch verboten werden? Arch. Lebensmittelhyg. 12, 175. Abstr: V. B. 31, 3499.
- Bischoff, J. 1961 Vorschläge zur Änderung der Verordnung zum Schutze gegen Infektion durch Erreger der Salmonellagruppe in Eiprodukten vom 17. Dezember 1956. Berl. Münch. tierärztl. Wschr. 74, 70-71. (E. sum.) Abstr: Z. B. 183, 155.
- Daniels-Bosman, M. S. M. & Huisman, J. 1961 Salmonellae in desiccated coconut and coco-products. Trop. geogr. Med. 13, 281-283. Abstr: B. Hy. 37, 572.
- Delchev, C. & Jordanov, I. 1961 (Resistance and rendering harmless of Salmonella in the mixture of duck eggs.) Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960 pp. 271-274. (E. sum.)
- Dixon, J. M. S. & Pooley, F. E. 1961 The effect of chlorination on chicken carcasses infected with salmonellae. J. Hyg., Camb. 59, 343-348.

  Abstr: B. Ab. 37, 10673; B. Hy. 37, 365; Int. Ab. 26, 3535; V. B. 32, 1684.
- Dixon, J. M. S. & Pooley, F. S. 1961 Salmonellae in a poultry-processing plant.

  Mon. Bull. Minist. Hlth. Lab. Serv. 20, 30-33. Abstr: B. Ab. 36,

  49832; B. Hy. 36, 645; V. B. 31, 2842.

### Salmonellae in Food and Food Products (Cont'd.)

- Erdman, I. E., Thatcher, F. S. & MacQueen, K. F. 1961 Studies on the irradiation of microorganisms in relation to food preservation. I. The comparative sensitivities of specific bacteria of public health significance. II. Irradiation resistant mutants. Canad. J. Microbiol. 7, 199-205; 207-215. Abstr: B. Ab. 36, 49834; 49835.
- Ferguson, A. E., Connell, M. C. & Truscott, R. B. 1961 Isolation of Salmonella pullorum from the joints of broiler chickens. Canad. vet. J. 2, 143-145. Abstr: V. B. 32, 683.
- Foltin, H. W. 1959 Zur Frage des Salmonellanachweises bei der bakteriologischen Fleischbeschau nach der Antibioticabeifütterung bzw. -Therapie. Inaug. Diss., Munich. 40 pp.
- Forster, H. & Gasser, H. 1961 Zum Nachweis von Salmonellen in Lebensmitteln. Mitt. Lebensm. Hyg., Bern 52, 25-28. (3. sum.)
- Gärtner, H. & Böhlck, I. 1961 Kokoraspeln als Infektionsquelle für Paratyphus-Erkrankungen. Dtsch. med. Wschr. 86, 1609-1610. Abstr: B. Hy. 36, 1247.
- Gaugusch, Z. 1960 (Studies on the infection of duck eggs with Salmonella.) Roczn. Nauk rol. Ser. E Vet. Sci. 70, 435-436. Abstr: B. Ab. 38, 7041.
- Grossklaus, D. 1961 Zur Frage der Lebensfähigkeit von Salmonellen auf Zellophanwursthüllen. Arch. Lebensmittelhyg. 12, 84-86. Abstr: Z. B. 184, 92.
- Hands, A. H., Symons, H. W. & Vineall, A. J. P. 1961 Hygiene in frozen food factories. Lectures 1, 2 and 3. J. R. Inst. publ. Hlth. 24, 217-225. Abstr: B. Hy. 37, 259.
- Kauker, E. & Bentler, W. 1961 Ein Salmonellenfund in Kokoraspeln aus Ceylon. Arch. Lebensmittelhyg. 12, 237. Abstr: Z. B. 184, 478.
- Kressmann, H. & Albert, O. H. 1961 Vier Jahre Salmonellaverordnung und ihre Auswirkung in der Praxis. Berl. Münch. tierärztl. Wschr. 74, 359-363. (E. sum.) Abstr: Z. B. 184, 478; V. B. 32, 676.
- Kudicke, H. 1961 Über die Lebensdauer von Salmonella-Bakterien auf Süsswaren. Off. GesundhDienst. 23, 109-111. Abstr: Z. B. 181, 469.
- Kwiatkowski, E. 1960 (The contamination of milk and milk mixtures with Salmonella enteritidis Gärtneri.) Roczn. Mauk rol. Ser. E Vet. Sci. 70, 439-440.
  = (3. sum.) Abstr: B. Ab. 38, 2942.
- Lerche, M. 1961 Zur Lebensfähigkeit von Salmonellabakterien in Mayonnaise und Fleischsalat. Wien. tierärztl. Wschr. 48, 348-361. (E. sum.) Abstr: B. Ab. 37, 19212; Z. B. 134, 475.
- Lorenz, W. 1961 Zur Salmonellenfrage in Eikonserven. Wien. tierarztl. Mschr. 48, 448-453. (E. sum.) Abstr: B. Ab. 36, 85144; Z. B. 184, 474.

# Salmonellae in Food and Food Products (Cont'd.)

- Matzke, W. 1960 Ist eine Salmonellen-Ubertragung von Wassergeflügel auf Speisekarpfen möglich? Mh. VctMed. 15, 849-853. Abstr: Z. B. 181, 471.
- Mossel, D. A. A. 1961 (A rapid identification of gram negative, rod-shaped bacteria isolated in the hygienic-bacteriological food inspection.) Arch. Lebensmittelhyg. 12, 180-182.
- Murdock, C. R., Crossley, E. L., Robb. J., Smith, M. E. & Hobbs, B. C. 1960 The pasteurization of liquid whole egg. Mon. Bull. Minist. Hlth. Lab. Serv. 19, 134-152. Abstr: B. Ab. 37, 6810.
- North, W. R., Jr. 1961 Lactose pre-enrichment method for isolation of Salmonella from dried egg albumen. Its use in a survey of commercially produced albumen. Appl. Microbiol. 9, 188-195. Abstr: B. Ab. 36, 65462; B. Hy. 36, 1247; Z. B. 183, 155.
- Ortenzio, L. F. & Stuart, L. S. 1961 Survival of Salmonella on waxy fruit.

  Antimicrob. Agents Ann. 1960, pp. 618-624. Abstr: B. Ab. 39, 1223.
- Parry, W. H. 1961 The survival of salmonellae in baked confectionery. Med. Offr. 105, 197-202. Abstr: B. Hy. 36, 752.
- Pumarola, 4. & Diaz, L. 1961 Investigacion de germenes del grupo "Salmonella" en higados de cardos destinados al consumo. Rev. iber. Parasit. 21, 73-80. (3. sum.) Abstr: B. Ab. 36, 65466; V. B. 31, 3496.
- Raj, H. & Liston, J. 1961 Survival of bacteria of public health significance in frozen sea foods. Food Tech., Champaign 15, 429-434. Abstr: B. Ab. 37, 19216.
- Rhodes, D. N. 1961 A public health application of irradiation processing; the elimination of salmonellae from frozen egg. Food Irradiation 2(2), A10.
- Rohde, R. & Pachl, K. 1961 Die Salmonellose des Schlachtgeflügels, ein ernstes Problem in der tierärztlichen Lebensmittelüberwachung. Mh. VetMed. 16, 351-354. Abstr: Z. B. 183, 156.
- Sadler, W. W., Yamamoto, R., Adler, H. E. & Stewart, G. F. 1961 Survey of market poultry for Salmonella infection. Appl. Microbiol. 9, 72-76. Abstr: B. 4b. 36, 28127; B. Hy. 36, 1003; Z. B. 181, 473.
- Schaal, 5. 1961 (Re-examinations for the presence of salmonellae in kangaroo meat.) Fleischwirtschaft 13, 1034-1036. (E. sum.)
- Schreiter, M. C. 1960 Bakteriologische Fleischuntersuchung obligatorisch für alle Schlachtpferde oder nicht? Mh. VetMed. 15, 888-890. Abstr: 2. B. 184, 81.

### Salmonellae in Food and Food Products (Cont'd.)

- Semple, A. B., Graham, 4. J. & Dutton, E. M. 1961 A review of the sampling of imported desiccated coconut. Med. Offr. 105, 59-60. Abstr: B. Hy. 36, 542.
- Shapiro, S. E., Zhdanov, I. S. & Chapovskaia, L. R. 1961 (Chicken egg products as a source of paratyphoid B.) Hyg. & Sanit., Moscow 26, 112-114.
- Shur, I. V. 1960 (Immediate tasks of veterinary-sanitary inspection for the prevention and control of toxicoinfections and toxicoses from food.) Trudy vsesoyuz. Inst. vet. Sanit. 17, 24-34.
- Strong, D. H., Woodburn, M. J. & Mancini, M. M. 1961 Preliminary observations on the effect of sodium alginate on selected nonsporing organisms. Appl. Microbiol. 9, 213-218. Abstr: B. Ab. 36, 65468.
- Sylvester, P. K. & Green, J. 1961 The effect of different types of cooking on artificially infected meat. Med. Offr. 105, 231-235. 4bstr: B. Hy. 36, 877.
- Thatcher, F. S. & Loit, A. 1961 The comparative microflora of chlortetracycline-treated and nontreated poultry with special reference to public health aspects. Appl. Microbiol. 9, 39-44. Abstr: B. Ab. 36, 34839; Z. B. 182, 150.
- Uherko, J. 1961 (A short contribution to the occurrence of Salmonella in imported meat meat and refrigerated ducks.) Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960 pp. 253-254.
- Wilson, S., Paffenbarger, R. S., Jr., Foter, M. J. & Lewis, K. H. 1961 Prevalence of salmonellae in meat and poultry products. J. infect. Dis. 109, 166-171.

  Abstr: B. Ab. 37, 14945; B. Hy. 37, 816.
- winkle, S. & Adam, W. 1961 (Sterilization of Salmonella infected imports, especially of dried egg products and shredded coconut, through vacuum fumigation. Dtsch. LebensmittRdsch. 57(8), 193-196.
- Winkle, S., Rohde, R. & Adam, W. 1961 Über Salmonella-Befall von importiertem Känguruhfleisch. Desinfekt. Gesundheitswes. 53(8), 113. Abstr: Z. B. 184, 476.
- Zagaevskii, I. S. 1961 (Food inspection and disinfection of eggs.) Veterinariya, Moscow (2), 78-82.
- Zagaevskii, I. S. 1961 (Poultry as carrier of Salmonella and veterinary and sanitary examination of carcasses.) Veterinariya, Moscow (12), 31-35.

  Abstr: V. B. 32, 1769.
- Zagaevskii, I. S. 1961 (On decontamination of pork infested with Salmonella.) Vop. Pitan. 20, 62-66.

### Salmonellae in Water, Sewage and Soil

- Delage, B. 1961 Presence de Salmonella et d'Arizona dans la terre. Bull. Acad. nat. Med. 145, 575-576. Abstr: B. Hy. 37, 415.
- Delage, B. 1961 Survie des salmonelles dans la terre. Arch. Inst. Pasteur Maroc 6, 139-142. Abstr: V. B. 32, 1013.
- Gartner, H. & Schyma, D. 1961 Über den Nachweis von Coli-Bakterien und Salmonellen aus dem Wasser mit einem löslichen Ultrafilter. 4rch. Hyg., Berl. 145, 81-87. (E. sum.) Abstr: B. Ab. 36, 53772; B. Hy. 36, 852.
- Lenk, V. & Ackermann, H. W. 1961 Erfahrungen über die Isolierung von Typhus Viund Salmonella-Phagen aus Fluss- und Abwasser. (Abstr.) Zbl. Bakt. I Ref. 178, 77-78.
- Lenk, V. & Ackermann, H. W. 1961 Erfahrungen über die Isolierung von Typhus Viund Salmonellaphagen aus Fluss- und Abwasser. Zbl. Bakt. I Orig. 181, 224-233. (E. sum.) Abstr: B. Hy. 36, 731; Z. B. 181, 463; B. Ab. 40 23899.
- Meyer, R. 1961 Auswertung von Salmonellen-Überlebenskurven im Grundwasser. Zbl. Bakt. I Orig. 179, 339.
- Schaal, E. 1961 Die Biologie der Salmonellen im eiweisshaltigem Abwasser. Berligunch. tierärztl. Wehr. 74, 21-24. (E. sum.) Abstr: 6. Ab. 36, 2944; Z. B. 184, 124.
- Slavkov, I. 1961 Resistance des salmonella dans le sol, Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960 pp. 279-283. (E. sum.) Abstr: V. B. 32, 1378.
- Slavkov, I. 1961 (On the stability of Salmonella in the soil. 2-3.) Izv. Akad. na Nauk Tsent. Nauchnoisled. Vetkhig. Inst. za Zhivotin. Prod. 1, 53-76. (G. sum.)
- Steiniger, F. 1961 Wie lange halten sich Salmonellen aus verregnetem Abwasser auf Pflanzen? Berl. Munch. tierarztl. Wschr. 74, 389-392. (E. sum.) Abstr: Z. B. 184, 477; V. B. 32, 679.
- Ugorski, L. 1961 (Investigation on Salmonella and Shigella infection in rodents from irrigated area.) Acta microbiol. polon. 10, 439-441. Abstr: B. Hy. 37, 796.

#### Human Salmonellosis -- General

- Agarwal, S. C., Singh, G. & Shrivastav, J. B. 1961 Bacteriology of Salmonella infection in India. Indian J. Path. Bact. 4, 78-82.
- Aksoycan, N., Tezok, F. & Sezen, O. N. 1961 (The typhoid epidemic in a military unit in Ankara.) Turk. Bull. Hyg. exp. Biol. 21, 191-198. (E. sum.)
  Abstr: B. Hy. 37, 601.
- Behrend-Gersch, L. 1961 Über das Vorkommen von Mischinfekten, Typenwechsel und Dauer der Ausscheidung pathogener Enterobacteriaceen. Z. ges. Hyg. 2, 387-395. Abstr: Z. B. 184, 504.
- Brisou, B. & Le Noc, P. 1961 Isolement de salmonelles peu communes dans trois cas d'infection intestinale a forme diarrheique ou dysenterique. Arch. Inst. Pasteur Madagascar 29, 15-17. Abstr: Z. B. 184, 471.
- Brodhage, H. 1961 (On the current status of Salmonella infections and their prevention.) Ther. Umsch. 18, 490-493.
- Buczowski, Z. 1961 Salmonelloses of man, diagnosed in the years 1946-1956 in Poland. Bull. Inst. mar. Med. Gdansk 12, 51-71.
- Chevrel, M. & Larribaud, J. 1961 (The typho-paratyphoid fevers in the army in Algeria.) Rev. prat., Paris 11, 3482-3487.
- Cominazzini, C., Andreoni, C. & Saccani, C. F. 1961 Le salmonellosi in Provincia di Novara dal 1953 al 1961. Boll. Ist. sieroter. Milano 40, 650-657. Abstr: B. Ab. 39, 24230.
- Davydova, I. S., Birkovsky, Yu. E., Kalitseva, L. I., Kolotilova, L. V. & Turetskaya, E. S. 1961 (Diseases caused by S. breslau.) J. Microbiol., Moscow 32(4), 143-144.
- Fasquelle, R., Le Minor, L. & Bourdon, J. L. 1961 (The salmonelloses.) Rev. prat., Paris 11, 1853-1866.
- Galbraith, N. S., Archer, J. F. & Tee, G. H. 1961 Salmonella saint-paul infection in England and Wales in 1959. J. Hyg., Camb. 59, 133-141. Abstr: B. Ab. 36, 73104; B. Hy. 37, 261; Int. Ab. 25, 4864; Z. B. 183, 148; V. B. 31, 3500.
- Grinshpun, L. F. & Pertsovich, P. I. 1961 (Group disease caused by Salmonella muenchen.) Vo-med. Zh., Moscow (5), 65-66.
- Holzberger, P. C. & Schoenfeld, S. 1961 Industrial medical aspects of the acute dysentery syndrome. A laboratory, clinical, and industrial study of the acute dysentery syndrome among workers in a tropical oil refinery. J. Occup. Med. 2, 240-243. Abstr: B. Hy. 36, 1036.
- Humbert, R., Mannweiler, E. & Siemens, W. 1960 Typhöse und gastroenteritische Salmonellosen. Dtsch. med. Wschr. 85, 185-191. Abstr: B. Hy. 35, 471; Z. B. 177, 405.

### Human Salmonellosis -- General (Cont'd.)

- Laaban, J., Schneck, G. & Mayer, J. 1961 (Fifty cases of typhoid and paratyphoid fevers observed in the west Constantine zone.) Bull. Soc. Med. milit. franc. 55, 184-192.
- Lagana, I., Nestoridou-Vatopoulou, T. & Nikolakaki, K. 1961 (Epidemic of enteritis due to Salmonella typhimurium.) Acta microbiol. hellen. <u>6</u>, 164-168. (E. sum.) Abstr: B. Hy. <u>37</u>, 602.
- Larribaud, J. 1961 (Apropos of 155 cases of salmonellosis observed in inhabitants of Algiers in two years.) Rev. Corps Sante des Armees 2, 67-75.
- Marcuse, K. & Henze, B. 1961 (Contribution to the problem of Salmonella enteritis.)
  Landarzt 37, 1423-1425.
- Mishra, M. P. & Dave, D. S. 1961 Enteric fevers. J. Ass. Physicians India 2, 243-252. Abstr: B. Hy. 36, 1264.
- Naik, B. K. & Baig, M. M. 1961 Incidence of Salmonella infections as based on clinical grounds. Indian J. Path. Bact. 4, 62-69.
- Palmisano, C. 1961 ("Salmonella typhimurium infection".) Ann. Med. nav. trop. 66, 56-73.
- Petrovskii, K. S. 1961 (Alimentary toxic infections and their prevention.) Vomed. Zh., Moscow (5), 48-53.
- Polak, M. F. & Kampelmacher, E. H. 1961 (Salmonella bacteria in man during the first quarter of 1961.) Ned. Tijdschr. Geneesk. 105, 1219-1220.
- Radev, I. 1961 (Studies on typhoid and paratyphoid fevers in our country.) Nauch. Trud. Vissh. Med. Inst. Sofia 4(3), 161-182.
- Salmonella infections. 1961 Lancet 1, 1390.
- Todorovic, K., Stankovic, M., Stefanovic, N. & Dosen, H. 1960 Salmonellosis in clinical practice. Srpski Arh. 88, 369-379. Abstr: B. Ab. 36, 85451.
- Usmanova, A. V. 1961 (Diagnostic and therapeutic aspects of typho-paratyphoid diseases.) Soviet. Med., Moscow 25(11), 123-128.
- Verliac, F. & Witchitz, S. 1961 (What is the status of the problem of typhoparatyphous disorders?) Rev. med. franc. 42, 255-262.
- Zacharias, S. J. & Lenox, C. C. 1961 Salmonella reading--a report of a human infection. Amer. J. med. Tech. 27, 141-146.

#### Salmonellosis in Infants and Children

- Boesen, U. 1961 Salmonella typhi-murium meningitis in a newborn infant. Danish med. Bull. 8, 89-92.
- Gardini Tuesta, W. E. & Caro J., D. 1961 Contribucion al el estudio de las infecciones intestinales del nino. Bol. ofic. Sanit. Pan. Amer. 51, 145-149. (E. sum.) Abstr: B. Hy. 37, 61.
- Gornitskaia, 3. A. 1961 (Some problems in the pathogenesis of acute gastrointestinal diseases in infants.) Vop. Okhr. Materin. Dets. 6, 23-28.
- Gulasekharam, J. & Velaudapillai, T. 1961 Symptomless salmonellosis and shigellosis in children from a rural population in Ceylon. Z. Hyg. InfektKr. 147, 347-349. Abstr: B. Hy. 37, 307; Z. B. 183, 152.
- Kaplan, M. & Bernheim, R. 1961 (Study of fifty cases of typhoid fever and paratyphoid B fevers observed from 1957 to 1960 in a Parisian pediatrics department.) Sem. Hop. Paris 37, 2035-2044.
- Maroja, R. C., Almeida, A. J., Souza, E. B. & Freitas, E. N. 1959 Estudos bacteriologicos de uma epidemia de diarreia infantil em Fortaleza, Ceara, 1957. Rev. Serv. Saude publ., Rio de J. 10, 733-739. Abstr: B. Ab. 38, 2504.
- Nisevich, N. I. 1961 (The current status of intestinal infections in infants.)

  Vop. Okhr. Materin. Dets. 6, 3-6.
- Pikhl, Kh. O. 1961 (On an outbreak of Salmonella newport infection in a creche.)

  J. Microbiol., Moscow 32(2), 124-126.
- Pikhl, Kh. O. 1961 An outbreak of Salmonella newport infection in nurseries. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 344-346. Abstr: B. Ab. 39, 7048.
- Puschmann, B. 1961 Über den klinischen Verlauf einer Salmonella thompson Hauspidemie. Z. ärztl. Fortbild. <u>55</u>, 297-301. Abstr: B. Hy. <u>36</u>, 777.
- Sen, R. 1961 Salmonella and Shigella types isolated from gastrointestinal infections in children at Ibadan, Nigeria. (Abstr.) Indian J. Pediat. 28, 128.
- Silverstolpe, L., Plazikowski, U., Kjellander, J. & Vahlne, G. 1961 An epidemic among infants caused by Salmonella muenchen. J. appl. Bact. 24, 134-142. Abstr: B. Hy. 37, 574; B. Ab. 38, 19396.
- White, M. E., Lord, M. D. & Rogers, K. B. 1961 Bowel infection and acute appendicitis. Arch. Dis. Childh. 36, 394-399.

### Food Poisoning

- Akhmedov, A. M. 1960 Epidemiological peculiarities of food poisoning of Salmonella character due to meat in Azerbaidzhan. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 2297-2298.
- Akhmedov, A. M. 1960 (Materials on food toxicoinfections of a paratyphoid character in Azerbaijan.) Trudy vsesoyuz. Inst. vet. Sanit. 17, 46-50.
- Akopyan, R. A. 1960 An outbreak of food poisoning caused by Salmonella paratyphi C. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 2301-2302.
- Angelotti, R., Bailey, G. C., Foter, M. J. & Lewis, K. H. 1961 Salmonella infantis isolated from ham in food poisoning incident. Publ. Hlth. Rep., Wash. 76, 771-776. Abstr: B. Ab. 38, 6738; B. Hy. 37, 574.
- Balashov, V. I., Argunov, R. S., Sokolov, I. A., Pogozhin, V. A. & Usanova, A. V. 1961 (On the outbreak of toxinfection caused by two types of Salmonella.) J. Microbiol., Moscow 32(12), 114.
- Buss, W. 1961 (Food poisoning from Dutch cheese.) Arch. Lebensmittelhyg. 12, 265-266.
- Dualde Perez, V. 1961 Toxi-infecciones alimentarias por salmonellas. Bol. Cons. Col. vet. Esp. 8, 897-928.
- Food poisoning. 1961 Lancet 1, 384.
- Food poisoning in 1960. 1961 Brit. med. J. 2, 880.
- Food poisoning in England and Wales, 1960. 1961 Mon. Bull. Minist. Hith. Lab. Serv. 20, 160-171. Abstr: B. Hy. 37, 261.
- Harvey, R. W. S., Price, T. H., Davis, A. R. & Morley-Davies, R. B. 1961 An outbreak of salmonella food poisoning attributed to bakers' confectionery. J. Hyg., Camb. 59, 105-108. Abstr: B. Ab. 36, 49608; B. Hy. 36, 878; Int. Ab. 25, 4867; Z. B. 184, 92.
- Hayashi, K., Kugata, Y. & Naito, T. 1960 Etiological observations on bacterial food poisoning for a five year period from 1955 to 1959 in Nagasaki City. Endemic Dis. Bull. Nagasaki Univ. 2, 181. Abstr: Z. B. 184, 95.
- Kiselev, 2. V. 1960 (The role of atypical strains of bacteria of the paratyphoid group taken from the meat of slaughter animals, in food toxicoinfections.)
  Trudy vsesoyuz. Inst. vet. Sanit. 17, 35-38.
- Jones, A. P., Bennett, J. R. & Ellis, H. 1961 Salmonella food poisoning and abattoir-slaughtered meat. Mon. Bull. Minist. Hlth. Lab. Serv. 20, 229-233. Abstr: B. Hy. 37, 573; B. Ab. 39, 7150; V. B. 32, 1372.

### Food Poisoning (Cont'd.)

- Kowalski, M. & Slebioda, K. 1961 (A focus of food poisoning caused by S. typhimurium.) Przegl. epidem. 15, 87-88. Abstr: Z. B. 184, 94.
- Mareskin, I. A. & Shantarenko, I. V. 1961 (Food toxico-infection related to eating chicken eggs.) Hyg. & Sanit., Moscow 26(9), 89-90.
- Mel'nik, E. G. & Mikhailova, Yu. M. 1961 (Clinico-laboratory parallels in food toxinfections caused by Salmonella.) J. Microbiol., Moscow 32(10), 122-127.
- Merab, A., Taleb, N., Hatem, J. & Nasr, W. 1961 Les toxi-infections alimentaires au Liban. Etude clinique, bacteriologique et epidemiologique de 77 epidemies. Pr. med. 69, 2132-2134.
- Mikhailova, Yu. M., Veber, P. N. & Burkova, M. A. 1961 (An outbreak of food toxinfection caused by B. breslau.) J. Microbiol., Moscow 32(10), 127-128.
- Mikhailova, Yu. M. & Vilner, L. M. 1961 (A study of the virulence of Salmonella isolated from food toxinfection cases in experiments on chick embryos.) J. Microbiol., Moscow 32(11), 141-142.
- Nahrungsmittelinfektionen durch Keime der Salmonella-Gruppe. 1961 Dtsch. med. Wschr. 86, 351-357. Abstr: Z. B. 183, 154.
- Shik, E. I. 1960 (Food poisoning caused by S. breslam var. Binns.) J. Microbiol., Moscow 31(12), 111-112. Abstr: Ab. S. M. 5, 4723.
- Shik, E. I. 1960 Food poisoning caused by Salmonella typhimurium var. Binns. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 2318-2319. Abstr: B. Ab. 38, 15284.
- Tomescu, C., Caramzulescu, S., Stoicescu, E., Cretu, N., Alexa, I., Faraschivescu, N. & Florescu, D. 1961 (Study of an outbreak of food poisoning caused by Salmonella typhi-murium.) Microbiol. Parazitol. Epidemiol., Bucuresti 6, 515-522. Abstr: B. Hy. 27, 819.
- Topolyanskaya, S. I., Fedorova, O. A. & Lutskaya, F. G. 1961 (Familial toxinfection provoked by S. eastbourne.) J. Microbiol., Moscow 32(9), 140.
- Whitehead, E. N. 1961 Investigation of an outbreak of food poisoning due to Salmonella typhimurium. Sanitarian, Lond. 69, 321-323. Abstr: B. Hy. 36, 1010.

### Clinical Features and Complications

- Aksoycan, N. 1960 Two Salmonella abcess by S. typhi and S. paratyphi C. Turk. Bull. Hyg. exp. Biol. 20, 448-451. Abstr: B. Ab. 37, 14855.
- Bailey, I. S., Garrett, G. & Nicol, A. 1961 Fatal septicaemia due to Salmonella cholerae suis. J. clin. Path. 14, 528-532. Abstr: B. Ab. 39, 15610.
- Beer, K. 1961 (Selected chapters of clinical bacteriology. I. Salmonella infections.) Praxis 50, 513-514.
- Caille, F., Bernard, J., Mathe, G., Toledano-Souillart, C. & Barab, R. 1961 Etude par l'hemoculture de la surinfection microbienne au cours d'hemopathies diverses. Place de Salmonella typhimurium. Rev. franc. Etudes clin. biol. 6, 337-350. (E. sum.)
- Case records of the Massachussetts General Hospital. Case 69-1961. 1961 New Engl. J. Med. 265, 642-648.
- Dalmatov, D. M. 1961 (Material for the study of cardiovascular conditions in patients with typho-paratyphoid diseases.) Terap. Arkh. 33, 101-105.
- Favilli, L. A. 1961 (Five more atypical cases of salmonellosis.) Nicaragua Med. 17, 28-33.
- Formandez-Ruiz, G. 1961 (May one accept Salmonella infection of the typhoid group in the pathogenesis of female sterility of tubal cause (on 6 personal cases).) Toko-ginec. pract. 20. 403-408.
- Greshil, M. S. 1961 (Differential diagnostic significance of rectomanoscopy in Salmonella infections and dysentery.) Soviet. Med., Moscow 25, 101-104.
- Griffiths, P. W. W. 1961 Atypical cases of salmonellosis in hospital. Lancet 2, 958-960. Abstr: B. Hy. 37, 278.
- Grimsrud, S. & Kass, E. 1961 (Meningitis caused by Salmonella dublin.) Nord. med. 65, 146. Abstr: Z. B. 181, 474.
- Gunther, O. 1961 (On the clinical aspects of Salmonella infections.) Z. arztl. Fortbild. 55, 657-665.
- Hiertonn, T., Jonsson, J. & Olsson, S. E. 1961 ("Surgical salmonellosis". An unusual case of abscess.) Nord. med. 65, 256-258. Abstr: Z. B. 181, 474.
- Hirson, C. 1961 Atypical cases of salmonellosis in hospital. Lancet 2, 1093.
- Hook, E. W. 1961 Salmonellosis: certain factors influencing the interaction of Salmonella and the human host. Bull. N. Y. Acad. Med. 37, 499-512.

  Abstr: B. Ab. 38, 6696.
- Kuncaitis, J. & Okutan, A. M. 1961 Empyema due to Salmonella typhimurium. Amer. Rev. respir. Dis. 83, 741-743.

# Clinical Features and Complications (Cont'd.)

- Levin, H. S. & Hosier, D. M. 1961 Salmonella pericarditis: report of a case and review of the literature. Ann. intern. Med. <u>55</u>, 817-823. Abstr: B. Hy. <u>37</u>, 387.
- Lindheimer, W., Schoop, W. & Kossling, F. K. 1961 Endocarditis ulcerosa hervorgerufen durch Salmoneila dublin. Dtsch. med. Wschr. <u>86</u>, 1960-1962.
- Mann, D. 1959 Renale Komplikationen bei Enteritis Breslau. Z. ges. inn. Med. 14. 49-54. Abstr: Z. B. 180. 528.
- Marseille, A. 1961 (Some unusual localizations of Salmonella infections.) Ned. Tijdschr. Geneesk. 105, 1579-1580.
- Martinov, A., Mandulov, V. & Apostolov, G. 1961 (Organic disease caused by Salmonella brandenburg.) Suvrem. med., Sofia 12(1), 39-42.
- Martynov, I. V. 1961 (A case of severe alimentary toxic infection with choleralike course.) Vo.-med. Zh., Moscow (5), 66-67.
- Mauther, L. S., McIntyre, A. J. & Ord, J. V. 1961 Isolation of Salmonella organisms from mesenteric lymph nodes. Canad. med. Ass. J. 85, 139-141.
- McCormick, J. S. & Micks, R. H. 1961 Anaemia of haemolytic type and polyarthritis caused by Salmonella infection. Irish J. med. Sci. 6th Ser., No. 429, 421-423.
- Megas, H., Papadaki, E. & Constantinides, B. 1961 Salmonella septicemia and aplastic crisis in a patient with sickle-cell ansmia. Acta Paediat., Stockh. 50, 517-521.
- Mikhailova, Iu. M. 1961 (The picture of blood proteins in patients with toxic infection caused by salmonellosis.) Klim. Med., Mosk. 39, 74-77.
- Minkenhof, J. E. 1961 (Clinical aspects and treatment of the "other salmon-elloses".) Ned. Tijdschr. Geneesk. 105, 1435-1437.
- Nushan, H., Sawyer, C. G., Rogers, R. O. & Whitley, N. O. 1961 Bacterial endocarditis due to Salmonella typhimurium. Amer. J. Cardiol. 7, 608-612.
- Ratignier, A., Mieral, R., Cuinet, E. & Piana, L. L. 1961 (Apropos of a splenic abscess of probable Salmonella origin.) Bull. Soc. Med. milit. franc. 55, 88-91.
- Redmond, A. J. & Slavin, H. B. 1961 Salmonella meningitis. J. Amer. med. Ass. 175, 708-709.
- Rubelman, P. A., Reback, J. F. & Loveman, C. E. 1961 Postextraction acute cellulitis caused by Salmonella choleraesuis: report of a case. J. oral Surg. 19, 255-256.

- Senenko, A. N. 1961 (Myocardial lesions in paratyphoid.) Klin. Med., Mosk. 39, 134-137.
- Six-month illness with spiking fever, pancytopenia, hypoproteinemia, splenomegaly and Salmonella organisms in the stool. Amer. J. Med. 31, 292-303.
- Skorkovsky, B. 1961 (A contribution to fatal salmonellosis.) Z. ärztl. Fortbild. 55, 865-866.
- Sponer, W. 1961 Zur Frage der Salmonellenerkrankung bei chronischen Gallen- und Leberleiden. Z. Ges. inn. Med. 16, 203-210.
- Terui, T. 1961 (A supplementary contribution to the bacteriological study on gall bladder bile in cases of biliary tract disease.) Hirosaki med. J. 12, 599-609. (E. sum. p. \*84.) Abstr: B. Ab. 36, 65191.
- Van Acker, K. 1961 (Salmonella sepsis and chronic tuberculosis.) Belg. Tijdschr. Geneesk. 17, 1166-1173.
- Van Eck, E. A. & Bhat, P. 1961 The isolation of Salmonella species from clinical specimens not usually associated with a Salmonella aetiology. Indian J. Path. Bact. 4, 70-77. Abstr: B. Ab. 37, 10488.
- Van Furth, R. & Klein, F. 1961 (Salmonelloses. Some clinical aspects.) Ned. Tijdschr. Geneesk. 105, 1426-1431. (E. sum.) Abstr: B. Hy. 37, 387.
- Watson, K. C. 1961 Survival of bacteria in amoebic hepatic pus in vitro. J. Hyg., Camb. 59, 161-169. Abstr: B. Ab. 36, 73159; Int. Ab. 25, 4843.
- Widon, A. L. & Cardon, L. 1961 Salmonella typhimurium osteomyelitis with sickle cell hemoglobin C disease: a review and case report. Ann. intern. Med. 54, 510-521. Abstr: B. Ab. 36, 48079.

### Laboratory Diagnosis

- Adamov, A. K. 1960 Stool and blood cultures: agglutination reactions with a zirarin agglutinin suspensions. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 2067-2071. Abstr: Int. Ab. 25, 4835.
- Birtasevic, B. & Dordevic, D. 1961 (Alimentary toxico-infection caused by S. cholerae suis (serological diagnosis).) Med. Arhiv 15, 59-68.
- Braga, A. & Baffa, A. 1961 Su di un metodo rapido per lo studio delle proprieta biochimiche degli enterobatteri. Boll. Ist. sieroter. Milano 40, 646-649. (£. sum.) Abstr: B. Ab. 39, 24212.
- Caldwell, E. R., Jr. & Abernathy, E. A. 1960 Salmonella and Shigella infections found in one hundred ninety-five cases of acute diarrhea. N. C. med. J. 21, 342. Abstr: Z. B. 181, 474.
- Hatem, J. 1961 (How to conciliate the exigencies of modern therapeutics and the slowness of the laboratory in the diagnosis of Salmonella infections.) Rev. med. Mey. Or. 18, 61-63.
- Heitmann, L. P. 1961 (Salmonella culture from blood clots with the use of a tetrathionate culture medium.) S. Afr. med. J. 35, 607-609.
- Ivanova, S. P. 1960 Identification of bacteria of the typhoid-paratyphoid group by means of fluorescent antibody technique. (Transl.) J. Microbiol. Spidemiol. Tmmunobiol. U.S.S.R. 31, 2016-2022. Abstr: Int. Ab. 25, 3099.
- Kudriavtsev, M. G. & Chukhlovin, B. A. 1961 (On detection of salmonelloses in a group of acute gastrointestinal diseases.) Vo.-med. Zh., Moscow (7), 47-48.
- Levine, M. 1961 Observations on salmonellae and related bacteria. Amer. J. med. Tech. 27, 249-254.
- Lie, K. J. & Suprihatin, S. D. 1960 (Some observations on filter paper as a cheap and simple laboratory method of detection.) Madj. Kedokt. Indonesia 10, 288-291.
- Mraz, T. 1961 (Effect of a prolonged incubation time on hemoculture results with special reference to Salmonella.) Orv. Hetil. 102, 442-445.
- Penna, R. & Panizza, D. 1961 Il metodo rapido Sanders e coll. per lo "screening" e per l'identificazione presuntiva degli enterobatteri patogeni. G. Batt. Virol. Immun. 54, 212-220. (E. sum.) Abstr: B. Hy. 37, 634.
- Serological reagents for bacteriological diagnosis. Memorandum No. 4. 1961 Mon. Bull. Minist. Hith. Lab. Serv. 20, 134-149. Abstr: B. Hy. 27, 195.

# Laboratory Diagnosis (Cont'd.)

- Villa, L., Carlberg, G., Cassingena, R. & Castagnetta, E. 1961 Sulla fermentazione dei carboidrati da parte degli enterobatteri. R. C. Ist. sup. Sanit. 24, 820-825. Abstr: B. Ab. 39, 15258.
- Werbin, B. Z. & Kasher, A. 1961 Rapid slide agglutination test in the diagnosis of typhoid fevers and typhus. J. clin. Path. 14, 446-447. Abstr: Int. Ab. 24, 2917; B. Hy. 37, 278; B. Ab. 39, 15728.
- Zwierz, C. 1961 Fonctionnement d'un dispensaire pour les maladies diarrheiques.
  Resultats obtenus dans l'etude des shigelloses. Arch. Inst. Pasteur Tunis
  38, 271-282. Abstr: B. Ab. 39, 24283.

### Epidemiology

- Akhmedov, A. M. 1961 (The sanitary and epidemiological role of paratyphus of calves in causing Salmonella type food poisoning.) Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960 pp. 255-257. (F. sum.)
- Anders, W. & Meier, E. 1961 Epidemiologische Jahresübersicht 1958 für das Bundesgebiet und West-Berlin. Zbl. Bakt. I Orig. <u>181</u>, 285-344. Abstr: B. Hy. <u>36</u>, 726.
- Anderson, E. S., Galbraith, N. S. & Taylor, C. E. D. 1961 An outbreak of human infection due to Salmonella typhimurium phage-type 20a associated with infection in calves. Lancet 1, 854-858. Abstr: B. Hy. 36, 1249; Z. B. 183, 147; V. B. 31, 2837.
- Asdrubali, M. & Coppini, R. 1961 Epidemiology of Salmonella infections in Perugia province. Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960 pp. 321. 322.
- Bernard, J. G., Calvet, G. & Bonnet, P. 1961 (Epidemiology of typho-paratyphoid fevers in the army during the year 1959.) Rev. Corps Sante des Armees 2, 55-66.
- Bitkina, L. N., Fedosyuk, R. Ya., Lobko, M. A., Mikerina, N. Ya., Glukhovtseva, Z. N., Rumanova, R. G., Vil'shanskaya, F. L., Matveeva, V. N., Yampolskaya, V. A. & Varshavskii, E. I. 1960 An outbreak of salmonellosis. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 2302-2303.
- Clarenburg, A. 1961 Die Epidemiologie der Salmonellose bei Mensch und Tier. Wien. tierärztl. Mschr. 48, 339-348. (E. sum.) Abstr: 2. B. 184, 473.
- Clarenburg, A. 1961 Epidemiology of salmonellosis in animals and man. Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960 pp. 241-249.
- Deparis, M., Manigand, G., Gagny, O. & Leborgne, M. 1961 (Epidemiological data on typhoparatyphoid infections in metropolitan France.) Maroc med. 40, 917-921.
- Dodin, A. 1960 Les salmonelloses a Madagascar, vues du laboratoire. Arch. Inst. Pasteur Madagascar 28, 19. Abstr: Z. B. 181, 210.
- Ekstam, M. 1961 (Investigations on the spread of Salmonella bacteria in slaughter-houses.) Nord. VetMed. 12. 480-491. (E. sum.) Abstr: Z. B. 184, 475; V. B. 32, 1010.
- El-Messih, G. A. 1961 Salmonellosis. A serological survey in rural areas of Qalyub demonstration and training center, Egypt-U.A.R. J. Egypt. publ. Hlth. Ass. 36, 161-201.
- Ferenczi, E., Stoll, K. & Viragh, G. 1960 (Die epidemiologischen Probleme der ansteckenden Enterocolitis-Erkrankungen in Budapest.) Nepegeszsegügy 41(6), 160. Abstr: Z. B. 180, 531.

- Galbraith, N. S. 1961 Studies of human salmonellosis in relation to infection in animals. Vet. Rec. 73, 1296-1303. Discussion, pp. 1303-1307, 1308.
- Godber, G. E. 1961 Report of the Ministry of Health for the year 1960. Part II. On the state of the public health being the Annual Report of the Chief Medical Officer. H. M. Stationery Office, London 239 pp. Abstr: B. Hy. 37, 329.
- Gordon, J. E., Freundt, E. A., Brown, E. W., Jr. & Babbott, F. L., Jr. 1961 Endemic and epidemic diarrheal diseases in Arctic Greenland. Amer. J. med. Sci. 242, 374-390. Abstr: B. Ab. 37, 2288; B. Hy. 37, 176.
- Granville, A. 1961 Le probleme de la dissemination des Salmonella par les viandes de boucherie et les produits charcuterie. Ann. Med. vet. 105, 82-105. (E. sum.) Abstr: B. Ab. 36, 69383.
- Harvey, R.W.S. & Phillips, W. P. 1961 An environmental survey of bake-houses and abattoirs for salmonellae. J. Hyg., Camb. 59, 93-103. Abstr: B. Ab. 36, 49588; B. Hy. 36, 877; Int. Ab. 25, 4868; V. B. 31, 2083; Z. B. 183, 154.
- Hobbs, B. C. 1961 Public health significance of salmonella carriers in livestock and birds. J. appl. Bact. 24, 340-352. Abstr: B. Ab. 39, 24269.
- Huisman, J. 1961 (Salmonella tel aviv transmitted to man by a tortoise.)

  Tijdschr. Diergeneesk. 86, 899-902. (E. sum.) Abstr: V. B. 31, 3497.
- Huisman, J. 1961 Salmonella telaviv transmitted to man by a tortoise (Testudo graeca). Trop. geogr. Med. 13, 180-182.
- Huss, R. 1961 (Remarks on the hazards of Salmonella infections in travel abroad and on its application to regulations on transmissible infection.)

  Svenska Läkartidn. 58, 3031-3035.
- Infection from poultry. 1961 Lancet 1, 38. Abstr: V. B. 31, 2084.
- Kampelmacher, E. H., Guinee, P.A.M., Hofstra, K. & Van Keulen, A. 1961 Studies on Salmonella in slaughterhouses. Zbl. VetMed. 8, 1025-1042. Abstr: B. Ab. 39, 7151; V. B. 32, 1373.
- Kaye, D., Shinefield, H. R. & Hook, E. W. 1961 The parakeet as a source of salmonellosis in man: report of a case. New Engl. J. Med. 264, 868-869. Abstr: B. Hy. 36, 1035.
- Krasnitskaya, E. S. 1960 (Infection of the population of the RSFSR with salmonelloses during 1956-1957 and food poisonings connected with the use of milk from cows suffering from mastitis.) Trudy vsesoyuz. Inst. vet. Sanit. 17, 208-209.
- Kubinyi, L. 1961 (Epidemics spread by drinking water during the last ten years in Hungary.) Orszagos Közegeszsegűgyi Intezet Működese, 1959 pp. 262-268. (E. sum.) Abstr: B. Hy. 36, 1140.

# Epidemiology (Cont'd.)

- Lang, K. 1961 Sammelreferat: Über das Problem der universellen Menscherpathogenität der Salmonellen. I. Die Humanpathogenität der Erreger spezifischer tierischer Salmonellosen. II. Die Humanpathogenität der "seltenen Salmonellen". Dtsch. tierarztl. Wschr. 68, 305-308; 474-477; 530-534. Abstr: Z. B. 184, 474.
- Laubenberger, T. & Presser, W. 1961 Uber eine Enteritis-Epidemie, hervorgerufen durch Salmonella typhimurium im Saarland. Med. Welt (32/33), 1608-1610.
- Margorina, L. M., Bilibin, A. F., Shatrov, I. I. & Tyutkina, N. F. 1961 (Contributions to the etiology and epidemiology of salmonelloses.) J. Microbiol., Moscow 32(2), 74-78. Abstr: Ab. S. M. 5, 3245.
- Margorina, L. M., Bilibin, A. F., Shatrov. I. I. & Tyutkina, N. F. 1961 Contributions to the actiology and epidemiology of the salmonelloses. (1st communication). (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 281-286. Abstr: B. Ab. 39, 7030.
- Mihalyfi, I., Kende, E., Jonas, E. & Vamos, G. 1961 Salmonella-Untersuchungen in Budapest in den Jahren 1956-1958. Acta microbiol. Acad. Sci. hung. 8, 35-42. Abstr: B. Ab. 36, 69231; B. Hy. 37, 177; Int. Ab. 25, 980; Z. B. 183, 148.
- Nevidal, A., Grau, A., Merdzo, A., Jurisio, S. & Miling, M. 1961 (Epidemio and typhoid and paratyphoid fevers in Osijik-Donji Grad in 1958). Vojno-sanit. Pregl. 18, 273-280.
- Noordam, A. L. & Postma, C. 1961 (Pork as a source of paratyphoid fever ("other salmonelloses").) Ned. Tijdschr. Geneesk. 105, 1421-1425. (E. sum.)

  Abstr: B. Hy. 27, 364.
- Pantaleon, J. 1961 (Public health and animal salmonellosis; danger of meat contamination by animal feces.) Proc. 2nd Symp. int. Ass. vet. Food Hyg.,
  Basel 1960 pp. 292-294. (£. sum.)
- Pickup, J. W. & Colenso, R. 1961 Paratyphoid B and the sale of salmonellae-infected desiccated coconut. A report on the administrative action taken by a county health department. Med. Offr. 105, 321-322. Abstr: B. Hy. 36, 1119.
- Poppe, H. H. 1961 (On a Salmonella manchester endemia in humans in Bremen and the problems arising from it in connection with certified milk production.)

  Arch. Lebensmittelhyg. 12, 266-269.
- Radvan, R. 1960 Persistence of bacteria during development in flies. I. Basic possibilities of survival. Folia Microbiol., Prague 5, 50-56. Abstr: B. Ab. 37, 14526.
- Salmonellosis in man and animal; papers presented to the annual congress 1961. Vet. Rec. 73, 1284-1308.

### Epidemiology (Contid.)

- Seidel, G. 1961 (The relation between Salmonella infections in man and animals.)

  Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960 pp. 323-327. (E. sum.)
- Semple, A. B., Parry, W. H. & Graham, A. J. 1961 Paratyphoid fever traced to desiccated coconut. Lancet 2, 364-365. Abstr: B. Hy. 37, 30.
- Sen, R. 1961 Salmonella infection at Ibadan, Nigeria. A study of the ecology of salmonellosis in a tropical rain forest area. Indian J. Path. Bact. 4, 101-110.
- Sery, V., Matejovska, D., Jesek, Z. & Sodja, I. 1961 (Epidemic of gastroenteritis from drinking water.) Csl. Epidem. Mikrobiol. Imunol. 10, 240-248. (E. sum.) Abstr: B. Hy. 37, 61.
- Shur, I. V. 1961 (Problems in the epidemiology of the salmonelloses.) Vop. Pitan. 20, 58-62.
- Simposio Lombardo di Malattie Infettive, Pavia, 30 ottobre 1960. Aspetti attuali della profilassi delle malattie contagiose con particolare riguardo alla contumacia nella famiglia e nella scuola. 1961 G. Mal. infett. parassit. 13, 631-694. Abstr: B. Hy. 37, 382.
- Smith, J. 1961 Reviews of the progress of dairy science. Section F. Milk-borne disease. J. Dairy Res. 28, 87-107. Abstr: B. Ab. 36, 65384.
- Sojka, W. J. 1961 (Salmonellosis in swine and the problem of public health.)

  Zeszyty Prob. Postepow Nauk Roln. 33, 85-114. (E. sum.)
- Spicer, C. C. 1961 The incidence of poliomyelitis virus in normal children aged 0-5 years. A report on a study by the Public Health Laboratory Service and local health authorities. J. Hyg., Camb. 59, 143-159. Abstr: B. Ab. 36, 69235.
- Takacs, J. 1961 (Veterinary duties in the prevention of human salmonellosis.) Mag. allator. Lapja 16, 104-108.
- Tseiukkov, S. P. 1961 (On Salmonella carriage by food industry workers and prevention of food poisoning.) Hyg. & Sanit., Moscow 26, 65-68.
- Vallette, H. 1961 Recherche des salmonelles dans les eaux usees et chez les porcs cliniquement sains a Geneve. Thesis, Bern. pp. 46.
- Walter, T. & Kokocinska, I. 1959 (Prüfung einer neuen epidemiologischen Methode zur Bestimmung der Infektionsquelle von Erkrankungen durch Salmonella anatum.) Przegl. epidem. 13, 173-175. Abstr: Z. B. 180, 530.

# Epidemiology (Cont'd.)

- Weidlich, N. & Niederehe, H. 1961 Über eine mit Erkrankungen beim Menschen zusammenhängende latente Salmonelleninfektion beim Geflügel. Arch. Lebensmittelhyg. 12, 121-124. Abstr: Z. B. 184, 476; V. B. 31, 3504.
- Yarmolik, I. F. 1961 (Role of open wells in rural areas in the epidemiology of Salmonella infections.) Hyg. & Sanit., Moscow 26(9), 35-40.

#### Human Carriers

- Boyer, J. & Roux, M. 1961 Role des porteurs de germes dans la propagation des infections typho-paratyphoidiques. Frequence des infections attenuees et inapparentes. Pr. med. 69, 1154-1156. Abstr: Z. B. 183, 147.
- Brühl, W. 1960 Zur Frage der Sanierung der Salmonellen-Dauerausscheider. Landarzt 36, 1252.
- Detection of typhoid carrier state. (Report of the Public Health Laboratory Service working party on the bacteriological examination of waterworks employees, Dr. E. S. Anderson, chairman) 1961 J. Hyg., Camb. <u>59</u>, 231-247. Abstr: Int. Ab. <u>25</u>, 4862.
- Lastwood, J. 1961 Oral Humatin (paromomycin) in chronic enteric carriers. J. Hyg.,
  Camb. 59, 65-76. Abstr: B. Ab. 36, 53724; B. Hy. 36, 1265; Z. B. 183,
  153.
- El Ghoroury, A. & Zaki, H. 1961 A preliminary survey of food handlers for typhoid and paratyphoid carriers. J. Egypt. publ. Hl.th. Ass. 36, 15-26. Abstr: B. Hy. 36, 1249; B. Ab. 38, 22905.
- Havlik, J. & Panek, V. 1961 (Surgical treatment of biliary carriers of S. typhi and S. paratyphi. (Preliminary communication.)) Rozhl. v Chir. 40, 513-517.
- Lucini, R. 1961 (Detection of Vi antibodies in carriers of Salmonella among hospital personnel employed in the kitchen, analysis laboratory and isolation ward.) Boll. Sci. med. 133, 114-119.
- Main, R. G. 1961 Treatment of the chronic alimentary enteric carrier. Brit. med. J. 1, 328-333. Abstr: B. Hy. 36, 666.
- Mollowitz, G. 1961 (Care of chronic typhoid and paratyphoid fever carriers by cholecystectomy and high penicillin doses.) Chirurg 32, 467-469.
- Nonnemann, H. 1961 Chirurgische Therapie bei einem Paratyphus-B-Ausscheider. Med. Welt (7), 350-351.
- Peyukov, S. P. 1960 (Salmonellosis and the Salmonella carrier state.) J. Microbiol., Moscow 31(12), 112-116. Abstr: Ab. S. M. 5, 4724.
- Tseyukov, S. P. 1960 Salmonellosis and the Salmonella carrier state. (Transl.)
  J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 2319-2325. Abstr:
  B. Ab. 38, 15035.
- Ukhov, A. Ya. 1961 (On detection of typhoid-paratyphoid carriers.) J. Microbiol., Moscow 32(11), 142.

# Vaccination and Immunity

- Argudin Garcia, A. 1961 (A new method of intradermal antitypho-paratyphoid vaccination in a single dose.) Rev. cubana Pediat. 33, 171-184.
- Bartashevich, N. S. & Stepanova, E. A. 1958 (Significance of the combination of the typhoid-paratyphoid and dysentery antigens in the development of immune reactions.) Vopr. Bakteriol. Immunol. Khimioter. Kishechn. Infekt. pp. 156-165. Abstr: Referat. Zh. Biol. 1961, No. 18462.
- Bernard, J. G., Jauneau, A., Bonnet, D. & Duboureau, L. H. 1961 (The typhoparatyphoid fevers in a vaccinated population, epidemiological and prophylactic considerations.) Maroc med. 40, 922-929.
- De Silva, C. C. 1961 The why, when and how of immunisations for Ceylon med. J. 6, 19-26. Abstr: B. Hy. 37, 733.
- Dutta, H. N. 1961 Immunity level against typhoid and paratyphoid bacteria in the indigenous village population. (Abstr.) Indian J. Microbiol. 1, 78.
- Ferreira, H. 1953-1960 Do poder imunizador ou poder protetor das vacinas preventivas contra as febres tifoide e paratifoides. Arch. Inst. Biol. Exerc. 14-21, 103-133. Abstr: B. Ab. 37, 18947.
- Jackson, J. H. 1961 TAB vaccines--an assessment of their value as prophylactics against enteric fever. S. Afr. J. Lab. clin. Med. 7, 93-107. Abstr: B. Hy. 37, 602.
- Joo, I. 1960 Production and control of typhoid vaccines. Ann. Immunol. Hung. 3, 11-20. Abstr: B. Ab. 37, 2472.
- Kheifetz, L. B., Khazanova, M. I., Leitman, M. Z., Kuz'minova, M. L., Slavina, Kh. M., Vasil'ieva, A. V. & Milovanova, A. S. 1961 (Typhoid-paratyphoid-tetanus chemical sorbed vaccine.) J. Microbiol., Moscow 32(9), 18-24.
- Krakht, S. V. 1961 (Preliminary trials on aerogenic immunization against intestinal infections.) Vo.-med. Zh., Moscow (10), 68-69.
- La Rocca, V. & Benzoni, G. 1961 Progressi nella preparazione del vaccino associato contro il tifo addominale, i paratifi ed il tetano (Vaccino T.A.B.Te).
  Boll. Ist. sieroter. Milano 40, 18-29. Abstr: B. Ab. 36, 65048.
- Lyuksemburg, K. I. 1960 Immunological indices in persons vaccinated against typhoid and paratyphoid B with chemical adsorbed bivalent vaccine of the Gamaleya Institute of Epidemiology and Microbiology of the U.S.S.R. Academy of Medical Sciences. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 31, 2258-2262. Abstr: Int. Ab. 25, 4863; B. Ab. 38, 14832.
- Lyuksemburg, K. I. 1961 (The study of postvaccinal reactions in response to administration of divaccine (typhoid and paratyphoid B) prepared at the Gamaleya Institute of Epidemiology and Microbiology.) J. Microbiol., Moscow 32(4), 108-112. Abstr: Ab. S. M. 5, 3796.

## Vaccination and Immunity (Cont'd.)

- Lyuksemburg, K. I. 1961 (Data on the epidemiological efficacy of divaccine and polyvaccine of the Gamaleya Institute of Epidemiology and Microbiology and of the NIISI polyvaccine with respect to typhoid and paratyphoid B.) J. Microbiol., Moscow 32(5), 111-115.
- Lysuksemburg, K. I. 1961 Reactions from the use of the new divalent vaccine (typhoid and paratyphoid B) produced by the Gamaleya Institute of Epidemiology and Microbiology, U.S.S.R. Academy of Medical Sciences. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 718-723.
- Lyuksemburg, K. I. 1961 The epidemiological effectiveness of the bivalent and polyvalent vaccines of the Gamaleya Institute of Epidemiology and Microbiology and of NIISI polyvalent vaccines with regard to typhoid and paratyphoid B. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 915-920.
- Nestoresco, N., Grigoriu, T., Badulesco, E., Solomon, I., Barbu, A., Vasiliu, E., Ionesco, M., Calomfiresco, A., Bordeianu, P., Alesseanu, G. & Panaitesco, G. 1961 La resistance specifique conferee par la vaccination antityphoparatyphoidique, comparee a l'etat d'immunite des anciens malades de fievre typhoide, criteriums d'appreciation de l'efficacite du vaccin T. A. B. Arch. roum, Path. exp. Microbiol. 20, 321-335. Abstr: B. Hy. 37, 737.
- Rangam, C. M., Gupta, J. C. & Bhagwat, R. R. 1961 Immunological aspects of Salmonella infections. Indian J. Path. Bact. 4, 89-95.

#### Treatment

- Aikat, B. K. 1961 Discussion on the effects of chloramphenical on immunological response to Salmonella infections. Indian J. Path. Bact. 4, 111-115.
- Kaden, M. M., Timen, Y. E., Morozova, M. M., Shiganova, V. L. & Butuzova, L.P. 1961 (The effect of antibiotic therapy on the clinical course and immunological reactivity of the organism of patients affected with typhoid and paratyphoid fever.) Antibiotiki 6, 50-54.
- Mebel', B. D. 1961 (The use of ACTH in combination with levomycetin in typhoid-paratyphoid diseases in children.) Vop. Okhr. Materin. Dets. 6, 55-60.
- Mikhailova, Iu. M. & Mel'nik, E. G. 1961 (Effectiveness of antibiotic and sulfonamide therapy of food toxico-infections of salmonellal origin.)

  Soviet. Med., Moscow 25, 131-133.
- Randriambololona, R. & Dodin, A. 1960 Etudo do l'evolution de la bacteriemie dans onzo cas de salmonellose traites. Ann. Inst. Pasteur 99, 278-285. (E. sum.) Abstr: B. Ab. 40, 11719.
- Rosenthal, A., Neter, E. & Weppner, D. F. 1961 Recovery from Salmonella meningitis after treatment with furaltadone (Altafur). J. Pediat. <u>58</u>, 377-380.
- Shamov, Iu. A. 1961 (Anthelminthic therapy of ascariasis with piperazine phosphate in Botkin's disease, typho-paratyphoid diseases and dysentery.) Soviet. Med., Moscow 25, 69-73.
- Shapiro, S. E. 1961 (On the method of determination of the clinical-epidemiological effectiveness of antibiotic therapy with synthomycin and levomycin in typhoid fever and paratyphoid A and B in children.) Vop. Okhr. Materin. Dets. 6, 51-55.
- Shapiro, S. Ya. & Piotrovich, A. K. 1961 (Levomycetin (chloramphenicol) and streptomycin in the treatment of typhoid and paratyphoid fever.) Medgiz. (No pagination or address. Price 0.50 r.) Abstr: Ab. S. M. 5, 3324.

#### Animal Salmonelloses -- General and Miscellaneous

- McGaughey, C. A. 1961 The diseases of elephants. I and II. Ceylon vet. J. 9, 17-21; 41-48. Abstr: V. B. 32, 1605.
- Messow, C. & Hensel, L. 1960-61 Sammelreferat: Die Salmonellose der Karnivoren. Dtsch. tierarztl. Wschr. 67, 623-626; 678-682; 68, 51-53.
- Röhr, W. 1961 Zur Infektion der Haustiere mit S. paratyphi B. Zbl. Bakt. I Orig. 182, 276-278. Abstr: Z. B. 183, 146; V. B. 31, 3495.
- (Salmonelloses in swine and poultry; scientific conference October 7th-8th, 1960.)
  1961 Zeszyty Prob. Postepow Nauk Roln. 33, 71-145. (E. sums.)
- Socratno, 1961 Some cases of salmonellosis in domestic animals. Commun. vet., Bogor 5(1), 39-44. Abstr: V. B. 31, 3872.
- Stenberg, H. & Vasenius, H. 1961 (The increase in Salmonella infections in domesticated animals.) Maatalous ja Koetoim. 15, 284-290. (E. sum.)
- Trawinski, A. 1961 (Studies on Salmonella problem conducted by scientific centers in Lublin and Pulawy.) Zeszyty Prob. Postepow Nauk Roln. 33, 75-84.

  (E. sum.)
- Van der Schaaf, A., Van Dorssen, C. A., Donker-Voet, J., Frik, J. F. & Van Maanen, P. H. A. M. 1961 (Survey of examinations of specimens in the Institute for Bacteriology, Veterinary Faculty, Utrecht, in 1959.) Tijdschr. Diergeneesk. 86, 525-536. (E. sum.) Abstr: V. B. 31, 3193.
- Zhukov, G. V. 1961 (Salmonellosis of young livestock.) Gosudarstvennoe Izdatel'stvo Sel'skokhozyaistvennoi Literatury, pp. 131.

#### Pullorum Disease and Fowl Typhoid

- Chong Sue Kheng 1961 Some observations on pullorum disease. J. Malay. vet. med. Ass. 3, 59-61. Abstr: V. B. 32, 3314.
- Cosgrove, A. S. & Lindenmaier, P. R. 1961 Case report: Hock swellings as a primary lesion of Salmonella pullorum infection in broiler chickens. Avian Diseases 5, 144-146. Abstr: V. B. 32, 353.
- Davis, D. E., Sims, H. M. & Buchanan, N. 1961 A blister-like lesion associated with pullorum disease in broiler chicks. Stheast. Vet. 12(2), 53-57.
- Gershman, M., DeHaas, H. & Chute, H. L. 1961 Anhydrous pullorum antigen composite. J. Bact. 82, 150-151. Abstr: B. Ab. 37, 6539; V. B. 32, 44.
- Hutt, F. B. & Crawford, R. D. 1960 On breeding chicks resistant to pullorum disease without exposure thereto. Canad. J. Genet. Cytol. 2, 357-370. Abstr: V. B. 31, 3164.
- Ide, Y. & Takanami, M. 1961 (Sensitivity of an agglutination test using paper electrophoresis, applied to Salmonella pullorum infection.) Bull. Nat. Inst. Anim. Hlth., Tokyo No. 41, 31-35. (E. sum.) Abstr: V. B. 31, 3163.
- Kulkarni, V. B., Chatupale, W. V. & Parnaik, D. T. 1959 Record of Salmonellae gallingrium in Bombay State. Bombay Vet. Coll. Mag. 6, 8-12.
- Lee, C. K. 1961 (Studies on improvement of Salmonella pullorum antigen.) Rep. Inst. Agric. Res., Korea (4), 179-182. (E. sum.)
- Lucas, H. 1961 Die statistische Erfassung der Hühnererkrankungen von 1949 bis 1960 und der Stand der Salm. pullorum-Seuche von 1953 bis 1961 im Raume Südhessen. Dtsch. tierärztl. Wschr. 68, 273-276. (E. sum.) Abstr: Z. B. 182, 356; V. B. 31, 3034.
- Milcu, S. M., Panu, A. & Castea, T. 1958 (Serological diagnosis of latent fowl after administration of iodoprotein.) Comun. Acad. Rep. pop. rom. 8, 335-343. (F. & R. sums.)
- Mora, E. C. & Edgar, S. A. 1961 Improved fowl cholers, typhoid control. Highlights agric. Res. (Ala. Sta.) 8(4), 5.
- Popov, T. B. 1961 (Pullorum disease. I. Infection by contact. II. Serological diagnosis of chronic infection.) Izv. vet. Inst. zaraz. parazit. Bolesti, Sofia 1, 175-180; 181-191. (E. sum.)
- Pullorum disease (B. W. D.) 1961 North, Iroland Minist. Agric. Leafl. No. 59, 2 pp.
- Pullorum disease in poultry. 1961 Tasm. J. Agric. 32, 115-118.

# Pullorum Disease and Fowl Typhoid (Cont'd.)

- Quesada, A., Izzi, R. & Lombardi, D. 1961 Sulla presenza della Salmonella pullorum in diversi organi di polli portatori cronici di infezione pullorotica. Atti Soc. ital. Sci. vet. 14, 538-543. (F. & G. sums.)
- Quesada, A., Izzi, R. & Roperti, C. 1961 Prove di trasmissione sperimentale dell'infezione pullorotica mediante instillazione nella cloaca di pollastre sane di liquido seminale di galle infetto. Atti Soc. ital. Sci. vet. 14, 543-548. (F. & G. sums.)
- Stover, D. E. 1961 The Salmonella infections (pullorum, typhoid and paratyphoid). U. S. Dept. Agric. ARS-45-2, pp. 45-48.
- Tanaka, T. 1961 (Studies on the salmonellosis of fowls with special reference to diagnosis of the S. pullorum carrier. I.). J. Jap. Ass. infect. Dis. 35, 481-486.
- Tanaka, T. 1961 (Studies on the salmonellosis of fowls with special reference to diagnosis of the Salmonella pullorum carrier. II. Studies on the "intermittant type" of the pullorum diseases in artificially infected fowls. III. Studies on adrenalin injection as an aid to the detection of the "intermittant type" of S. pullorum carrier.) J. Jap. Ass. infect. Dis. 35, 487-494; 529-540.
- Van Dorssen, C. A. 1961 (On the occurrence of Salmonolla pullorum typo II.)
  Tijdschr. Diergeneesk. 86, 414-426. (E. sum.) Abstr: V. B. 31, 2082.
- Van Dorssen, C. A. 1961 (A.S. pullorum strain that could not be identified in the system of Lucas and colleagues.) Tijdschr. Diergeneesk. <u>86</u>, 491-494. (E. sum.) Abstr: V. B. <u>31</u>, 2840.
- Van Roekel, H. 1961 Report on the pullorum disease testing results presented at the 33rd meeting of the Northeastern Conference on Avian Diseases. Avian Diseases 5, 461-462.
- Van Roekel, H., Clarke, M. K., Smyser, C. F. & Snoeyenbos, G. H. 1961 Forty-first annual report on pullorum disease eradication in Massachusetts, 1960-61.

  Mass. Univ. Control. Ser. Bull. No. 188, 15 pp.
- Vuorinen, R. 1961 (Pullorum disease in Finland 1960-61). Finsk VetTidskr. 67, 479-495.
- Wilson, J. E. 1961 Salmonella infections in poultry. Poult. Rev. 1, 31-42.
- Winmill, A. J. 1961 Control of fowl typhoid in Kenya. Bull. epiz. Dis. Afr. 2, 383-387.

# Avian Salmonelloses other than Pullorum Disease and Fowl Typhoid

- Akiyama, Y. 1961 (Studies on Salmonella infection in chicks. 1. With reference to cases of natural infection. 2. Observations on chicks hatched from eggs artificially infected with S. pullorum and S. senftenberg.) Jap. J. Bact. 16, 430-435; 460-467. Abstr: B. Ab. 37, 14986.
- Ayfantis, S., Papadopoulos, A. & Christodoulopoulos, A. 1961 (Survey of diseases of fowls in Greece, 1955-1960.) Delt. Hellen. kten. Hetair. (41), 3-20. (F. sum.) Abstr: V. B. 31, 3370.
- Bierer, B. W., Barnett, B. D. & Valentine, H. D. 1961 Experimentally killing Salmonella typhimurium on egg shells by washing. Poult. Sci. 40, 1009-1014. Abstr: B. Ab. 37, 6791; V. B. 32, 46.
- Bierer, B. W., Valentine, H. D., Barnett, B. D. & Rhodes, W. H. 1961 Germicidal efficiency of egg washing compounds on eggs artificially contaminated with Salmonella typhimurium. Poult. Sci. 40, 148-152. Abstr: B. Ab. 36, 45766.
- Csiszar, V., Dozsa, I. & Takacs, J. 1961 (Avian salmonellosis in the Budapest zoo.) Mag. allator. Lapja 16, 373-376. (E. sum.)
- Dougherty. E.. 3rd 1961 The pathology of paratyphoid infection in the White Pekin duck, particularly the lectors in the central nervous system. Avian Diseases 5, 415-430. Abstr: V. B. 32, 2177.
- Gagliardi, G. & Carlotto, F. 1961 Salmonella aviarie isolate nelle Venezie nel quadrennio 1956-1959. Atti Soc. ital. Sci. vet. 14, 707-710. (E. sum.) Abstr: V. B. 31, 3503.
- Grumbles, L. C. & Flowers, A. I. 1961 Epidemiology of paratyphoid infections in turkeys; species encountered and possible sources of infection. J. Amer. vet. med. Ass. 138, 261-262. Abstr: B. Ab. 36, 65358.
- Gylstorff, I. 1961 Herzkrankheiten beim Geflügel. Dtsch. tierärztl. Wschr. <u>68</u>, 616-619; 687-691. (E. sum.) Abstr: V. B. <u>32</u>, 1614.
- Löliger, H.-C. 1960 Die interstitielle Pneumonie des Huhnes. Dtsch. tierärztl. Wschr. 67, 636-639. (E. sum.) Abstr: V. B. 31, 1931.
- Luthgen, W. 1961 Untersuchungen über die Verbreitung von Salmonellosis, Ascaridiasis, Capillariasis und Coccidienbefall in Rassetaubenbeständen. Inaug. Diss., Justus-Liebig-Univ., Giessen.
- Marek, K. 1961 (Salmonelloses in poultry in Poland.) Zeszyty Prob. Postepow Nauk Roln. 33, 129-141. (E. sum.)
- Puccini, V. 1961 Le salmonellosi dei volatili rilevate dal 1950 al 1960 presso i laboratori del'Istituto Zooprofilattico Sperimentale di Foggia. Atti Soc. ital. Sci. vet. 15, 793-796. (E. sum.) Abstr: V. B. 32, 4049.

# Avian Salmonelloses other than Pullorum Disease and Fowl Typhoid (Cont'd.)

- Rao, S. B. V. & Gupta, B. R. 1961 The isolation of Salmonella weltevreden and Salmonella dublin in an outbreak of salmonellosis in imported chickens. Indian J. med. Res. 49, 6-8. Abstr: B. Ab. 39, 7460; V. B. 31, 3502.
- Salmonella infection in poultry. 1961 Gt. Brit. Min. Agric. Advisory Leafl. No. 298. 3 pp.
- Schurmann, E. & Averbeck, W. 1961 (Salmonellosis of poultry.) Vet. med. Nachr. 4, 173-181. (E. sum. pp. 4-5 of suppl.)
- Tuttle, J. W. 1961 The salmonella problem. Turkey World 36(5), 15: 19.
- Valadao, F. G. 1961 Breve nota sobre a ocurrencia de salmoneloses em pintos. An. Serv. Vet. Lourenco Marques 1955-59. No. 7. pp. 273-276. (E. sum.)
- Yamamoto, R., Adler, H. E., Sadler, W. W. & Stewart, G. F. 1961 A study of Salmonella typhimurium infection in market-age turkeys. Amer. J. vet. Res. 22, 382-387. Abstr: J. Amer. vet. med. Ass. 140, 476.
- Zhekov, S. & Slavkov, I. 1960 (Salmonella brandenburg infection in ducklings.)
  Nauch. Trud. vet. Inst. zaraz. parazit. Bolesti, Sofia 2, 69-71. (E. sum.)

#### Salmonella Infections in Cattle

- Bandaranayake, A. & Thambiaiyah, V. S. 1961 Calf paratyphoid in Ceylon. A report of an outbreak associated with Salmonella dublin. Ceylon vet. J. 2, 55-58. Abstr: B. Ab. 38, 6870; V. B. 32, 1770.
- Doumenis, C. & Veltsos, A. 1961 Isolement de Salmonella bovis morbificans a partir d'un veau sacrifie d'urgence au cours d'une enzoctie observee dans la region Tavros (Athenes). Arch. Inst. Pasteur hellen. 7, 44-48. (E. sum.) Abstr: B. Ab. 37, 10637; V. B. 32, 350.
- Gibson, E. A. 1961 Salmonellosis in calves. Vet. Rec. 73, 1284-1295, 1296. Discussion, pp. 1303-1307, 1308. Abstr: V. B. 32, 1012.
- Liebermann, H., Müller, M. & Heinke, I. 1960 Infektiöse Abortursachen beim Rind in Mecklenburg. Mn. VetMed. 15, 807-810. Abstr: V. B. 31, 2113.
- Mann, T. B. 1961 Enteric diseases of calves: infection by E. coli and Salmonella. Vet. Rec. 73, 21-22.
- Nottingham, P. M. & Urselmann, A. J. 1961 Salmonella infection in calves and other animals. N. Z. J. agric. Res. 4, 449-460. Abstr: B. Ab. 39, 19877; V. B. 32, 3315.
- Uzieblo. B. 1961 (Enzootic salmonellosis in adult cattle in the region of the river Odra.) Med. Wet., Warszawa 17. 226-231. (E. sum.) Abstr: V. B. 31, 3156.

#### Salmonella Infections in Sheep and Goats

- Hunter, D. 1961 The laboratory examination of ovine foetal material. J. med. Lab. Tech. 18, 162-167. Abstr: V. B. 32, 634.
- Keene, K. B. 1961 Salmonellosis in sheep. N. Z. Meat Prod. 5(6), 44.
- Nobili, I., Guercio, V. & Colonna, V. 1961 Osservazioni su due focolai di aborto ovino da Salmonella abortus ovis, in Sicilia. Atti Soc. ital. Sci. vet. 14, 742-744. (E. & F. sums.)
- Ognyanov, D., Popov, T., Kharalambiev, K. & Nikolaev, K. 1961 (Abortion in ewes in a district of Bulgaria.) Izv. vet. Inst. zaraz. parazit. Bolesti, Sofia 1, 331-339. (E. sum.)
- Sarateanu, D., Surdan, C., Sorodoc, G. & Fuhrer-Anagnoste, B. 1961 (Isolation of an inframicrobe from a focus of ovine enzoctic abortion.) Stud. Cercet. Inframicrobiol. Microbiol. Parazitol. 12, 95-103.
- Yucel, A. 1961 Sur l'infection par Salmonella reading chez le mouton. Bull. Soc. Pat. exot. 54, 939-942. Abstr: B. Hy. 37, 886; V. B. 32, 2175.

#### Salmonella Infections in Swine

- Aleksandrov, N. A. 1961 (Laboratory diagnosis of pasteurellosis in pigs.) Veterinariya, Moscow (12), 61-62.
- Cheremisinov, G. A. 1961 (Paratyphoid in baby pigs and new method of its control.) Svinovodstvo (11), 34-35.
- Dräger, H. 1961 (Effects of advanced Salmonella infection in swine.) Proc. 2nd Symp. int. Ass. vet. Food Hyg., Basel 1960 pp. 262-264. (E. sum.)
- Francony, R. 1960 Contribution a l'etude de la paratyphose du porc. Thesis, Lyon. 42 pp.
- Iganat'eva, O. A. 1961 (Rapid detection of Salmonella cholerae-suis in pig tissues by the use of antibodies labelled with fluorescein isocyanate.)
  Uchen. Zap. Kazan. vet. Inst. 81, 53-55. Abstr: V. B. 32, 45.
- Kafel, S. 1960 (Sanitary significance of the occurrence of salmonella in pigs affected with an acute form of swine fever.) Roczn. Nauk rol. Ser. & Vet. Sci. 70, 412-413. (E. sum.) Abstr: B. Ab. 37, 19183.
- Meuszynski, S. 1961 (Salmonellosis of swine.) Med. Wet., Warszawa 17, 538-542.
- Rutqvist, L., Thal, E., Petrelius, T. & Swahn, O. 1961 (Salmonella cholerae suis infection and nitrofurazone treatment or the infection.) Nord. VetMed. 13, 3-19. (E. sum.) Abstr. Z. B. 183, 153; V. B. 21, 2077.
- Sojka, W. J. & Citter, M. 1961 Salmonellosis in pigs with reference to its public health significance. Vet. Rev. Annot. 7, 11-28. Abstr: V. B. 31, 3160.
- Tacu, D., Tacu, A., Bercan, A. & Ceausescu, S. 1961 (The incidence of Salmonella typhi suis in piglets infected experimentally with hog cholera.) Lucr. Inst. Pasteur Bucuresti 5, 173-177. (F., G. & R. sums.) Abstr: B. Ab. 36, 81674; Z. B. 183, 149.

# Salmonella Infections in Horses

Bryans, J. T., Fallon, E. H. & Shephard, B. P. 1961 Equine salmonellosis. Cornell Vet. <u>51</u>, 467-477. Abstr: V. B. <u>32</u>, 1011.

### Salmonella Infections in Dogs and Cats

- Heather, C. D. & Nobles, B. 1961 La salmonelosis en los gatos domesticos. Bol. Ofic. sanit. pan-amer. 50, 246-249. Abstr: B. Hy. 36, 778; V. B. 32, 3672.
- Mortelmans, J., Cimpaye, J., Pinckers, F. & Claeys, R. 1961 A propos des salmonelloses des chiens au Ruanda-Urundi. Bull. epiz. Dis. Afr. 2, 241-244. (E. sum.)
- Van der Schaaf, A. 1961 (Salmonellosis in carnivorous domestic animals and fur animals.) Tijdschr. Diergeneesk. 86, 99-110. (E. sum.) Abstr: V. B. 31, 1713.

# Salmonella Infections in Rodents and other Small Animals

- Bergol'ts, V. M. & Popkova, V. N. 1961 (Pseudoleukosis of mice caused by bacteria of the Salmonella group.) Lab. Delo (5), 33-35. Abstr: Referat. Zh. Biol. 1961, No. 208482.
- Cherkasskii, E. S. & Sorina, S. E. 1961 (Salmonellosis in nutria.) Vestn. sel'skokhoz. Nauki (4), 99-101. (E. sum.) Abstr: V. B. 31, 3161.
- Garrocp, O., Font, M. & Rabasa, S. L. 1961 Infeccion por Salmonella enteritis (sic) en la rata. Ciencia e Invest., B. Aires 17, 46.
- Gusev, B. A. & Babicheva, A. J. 1961 (Paratyphoid of rabbits.) Krolikovod. Zverovod. (5), 19-20. Abstr: V. B. 31, 3162.
- Taylor, A. & McKenna, G. F. 1961 A new mouse strain susceptible to mammary cancer. Tex. Rep. Biol. Med. 19, 706-708. Abstr: B. Ab. 37, 10182.

#### **Epizootiology**

- Bechuanaland Protectorate. Annual report of the Department of Veterinary Services for the period 1st Jan., 1958-31st Dec., 1959. 1960. Unsworth, pp. 36 + 26. Abstr: V. B. 32, 4436.
- Bulling, E. 1961 Die Verbreitung der Tiersalmonellosen in Niedersachsen nach den Befunden der Jahre 1959 und 1960. Berl. Münch tierärztl. Wschr. 74, 452-455; 478-482. (E. sum.) Abstr: V. B. 32, 2534.
- Gusev, V. M. 1961 (Breeding colonies of rooks as natural foci of certain diseases; salmonellosis, psittacosis, Q fever, leptospirosis.) Dokl. Akad. Nauk S.S.S.R. 140, 268-271.
- Hammer, D. 1961 Die Entwicklung der Salmonellose bei Haustieren in Baden unter Berücksichtigung gesicherter Infektketten. Berl. Münch. tierärztl. Wschr. 74, 64-70. (E. sum.) Abstr: B. Ab. 38, 19506; Z. B. 183, 151; V. B. 31, 2076.
- Hoflund, S. 1961 Wasserverunreinigungen als Krankheitsursache in Rinder- und Schafbeständen. Dtsch. tierärztl. Wschr. 68, 97-100. (E. sum.) Abstr: V. B. 31, 1998.
- Kendereski, S. 1960 Beitrag zur Verbreitung von Trichinen und Salmonellabakterien bei Ratten. Schlacht- u. Viehhof-Ztg. 60, 385. Abstr: Z. B. 182, 345.
- Mierzejewski, J. 1961 (Bazillenträgertum von S. cholerae suis und S. typhimurium bei in Schweineställen erlegten Ratten.) Przegl. epidem. 15, 291-293.

  Abstr: Z. B. 184, 475.
- Quesada, A. & Izzi, R. 1961 Ulteriori indagini sulle farine di pesce inquinate da germi del genere salmonella (S. binza) implegate nella preparazione dei mangimi. Atti Soc. ital. Sci. vet. 15, 835-838. (E. sum.) Abstr: V. B. 32, 4047.
- Quesada, A., Izzi, R. & Maggio, V. 1960 Sulla presenza di germi del genere Salmonella nelle farine di pesce impiegate per la confezione dei mangimi. Atti Soc. ital. Sci. vet. 14, 757-762. (F. & G. sums.) Abstr: V. B. 31, 3501.
- Rackow, H. G. & Wiese, H. 1961 Ergebnisse und Erfahrungen 3 jähriger bakteriologischer Einfuhruntersuchungen von Futtermitteln tierischer Herkunft auf gesetzlicher Grundlage. Berl. Münch. tierärztl. Wschr. 74, 340-342. (E. sum.)
- Redaelli, C. & Giolitti, C. 1960 Osservazioni sulla qualita igienica delle farine animali ad uso zootecnico. Atti Soc. ital. Sci. vet. 14, 674-677. (E. sum.) Abstr: V. B. 31, 3877.
- Rutqvist, L. 1961 Presence of salmonella in fodder of vegetable origin. Bull. Off. int. Epiz. 56, 959-960. Abstr: V. B. 32, 352.

# Epizootiology (Cont'd.)

- Rutqvist, L. 1961 Vorkommen von Salmonella in Futtermittel n vegetabilischen Ursprunges. Zbl. VetMed. 8, 1016-1024. (E. sum.) Abstr: B. Ab. 39, 6557; V. B. 32, 1375.
- Salmonella organisms in animal feeding stuffs. Report of a working party. 1961
  Mon. Bull. Minist. Hlth. Lab. Serv. 20, 73-85. Abs tr: B. Hy. 36, 1119;
  V. B. 31, 3157.
- Sippel, W. L. 1961 Feed-connected disease problems of livestock. Feedstuffs 33(18), 140, 142, 144.
- Stenberg, H. 1961 (Feedstuffs as a source of Salmonella irriection in Finland.)
  Finsk VetTidskr. 67, 347; 349-361. (E. sum.) Abstr: V. B. 31, 3158.
- Thomas, J. 1961 Salmonelles isolees en Belgique chez les animaux et dans les denrees alimentaires d'origine animale. Ann. Med. Get. 105, 206-218. Abstr: B. Ab. 37, 2354; V. B. 32, 45.

#### Animal Salmonelloses: Treatment and Control

- Bartash, A. N. 1961 (Tetracycline for paratyphoid in piglets.) Veterinariya, Moscow (8), 37.
- Bierer, B. W. 1961 Furaltadone water medication against naturally induced Salmonella pullorum infection in stressed floor-pen broilers. Avian Diseases 5, 333-336.
- Bierer, B. W. 1961 A nitrofuran coccidiostat aids in control of pullorum disease under stress conditions. J. Amer. vet. med. Ass. 139, 238-239. Abstr: B. Ab. 37, 19167.
- Bierer, B. W., Valentine, H. D. & Vickers, C. L. 1961 Furaltadone water medication: Its use in avian salmonellosis. Avian Diseases 5, 214-218. Abstr: V. B. 32, 581.
- Cerny, L. & Skalka, B. 1961 (The antibacterial effectiveness of deep litter and importance of its biothermical sanitation at the salmonellosis of the domestic poultry.) Sborn. ces. Akad. Zemedelsk. Ved, vet. Med. 34, 403-408. (E. sum.)
- Chwojnowski, A. 1961 (A salmonella vaccine for foxes.) Med. Wet., Warszawa 17. 17-22. Abstr: V. B. 31, 2838.
- De la Villa, G. C. 1960 Datos sobre control bacteriologico de materias primas de origen animal integrantes de pionsos compuestos. Rev. Patronato Biol. anim., Madrid <u>6</u>, 103-109. Abstr: B. Ab. <u>32</u>, 20062.
- Dijkstra, R. G. 1961 (Some aspects of the control of salmonellosis in calves.)
  Tijdschr. Diergeneesk. 86, 1278-1286. (E. sum.) Abstr: V. B. 32, 677.
- Fomina, L. M. 1961 (Use of terramycin in treatment of paratyphoid in baby pigs.) Sel'sk. Khoz. Sev.-Zapadnoi Zony (2), 77-78.
- Cerriets, £. 1961 Gesundes Geflügel--Leistungsgeflügel. Tierzucht 15. 131-132.
- Gheorghiu, I., Albu, T., Surdan, C., Carp, N. & Popa, M. 1961 (The immunogenic power of adsorbed swine plague vaccine associated with Salmonella. Stud. Cercet. Inframicrobiol. Microbiol. Parazitol. 12(Suppl.), 455-461.
- Janssen, G. J. G. M. & Van Lipzig, J. H. H. 1961 (Treatment of S. typhi murium infection in foals with furazolidone.) Tijdschr. Diergeneesk. <u>86</u>, 178-183. (£. sum.) Abstr: V. B. <u>31</u>, 2836.
- Kostakev, A. & Slavkov, I. 1961 (Vaccines and sera against typhimurium infection in poultry.) Izv. vet. Inst. zaraz. parazit. Bolesti, Sofia 2, 101-108. (£. sum.)
- Malyavin, A. G., Romin, A. V. & Savich, B. M. 1961 (Prophylaxis and treatment of pullorum disease with furazolidone combined with vaccination.) Trudy nauchno-kontrol. Inst. vet. Preparatov 2, 130-137.

- Animal Salmonelloses: Treatment and Control (Cont'd.)
- McDonald, R. 1961 Salmonella in commercial feeds. Tex. Agric. Exp. Sta. Feed Serv. Rep. 21(9), 3-4.
- Morehouse, L. G. & Wedman, E. E. 196! Salmonella and other disease-producing organisms in animal by-products-4 survey. J. Amer. vet. med. Ass. 139, 989-995. Abstr: B. Ab. 39, 7434.
- Muller, J. 1961 (On the control of salmonellosis in poultry.) Nord. VetMed. 13, 617-628. (E. sum.) Abstr: V. B. 32, 1772.
- Neugebauer, B. 1959 Catalase determination for the evaluation of fish meal. Fischwar. u. Feinkostindustr. 31, 186. Abstr: B. 4b. 36, 85625.
- Ochakovskii, S. 1961 (Conditions for preventing paratyphoid of swine.) Zemled. Zhivotnovod. Moldav. (10), 37-38.
- Parfenov, I. S. 1961 (Comparative study of medicinal and prophylactic properties of antibiotics and biological preparations under salmonellosis of baby pigs in farms with conditions favoring the spread of infectious atrophic rhinitis.) Trudy vsesoyuz. Inst. eksp. Vet. 27, 157-165. Abstr: V. B. 32, 2176.
- Petkov, S. & Petkovova, R. 1961 (Anwendung des Furazolidon bei den von Salmonellosis und Grippe befallenen Mastschweinen.) Sborn. ces. Akad. Zemedelsk. Ved., Zivocisna Vyroba 34(1), 69-80. (In Czech; G. sum.)
- Pritulin, P. I. 1961 (Aerosol immunization of animals against paratyphoid.)

  Veterinariya, Moscow (11), 19-23. Abstr: V. B. 32, 1380.
- Prokof'eva, M. T., Doroshko, I. N., Gurova, E. I., Zolotov, N. N. & Ignatov, V. 4. 1961 (The use of furazolidone in the case of pullorum disease and paratyphus in poultry.) Veterinariya, Moscow (1), 41-46.
- Rabinovich, A. V. 1961 (Treatment of salmonellosis of swine.) Svinovodstvo (12), 45.
- Sandbu, P. & Schjerven, L. 1960 (4 salmonellosis outbreak in a cattle herd. III. Medication of calves.) Medlemsbl. Norske Veterinaerforening 12, 151-156. Abstr: Z. B. 183, 152.
- Saurat, P. & Lautie, R. 1961 La sterilisation des porteurs de germes pulloriques par la neomycine en association avec la terramycine. Rev. Med. vet. 112, 161-168. (E. sum.) Abstr: V. B. 31, 2442.
- Schjerven, L. & Sandbu, P. 1960 (A salmonellosis outbreak in a cattle herd. II. Hygienic measures.) Medlemsbl. Norske Veterinaerforening 12, 79-83.

  Abstr: Z. B. 183, 152.
- Spirov, V. D. 1961 (Experience in the liquidation of paratyphoid of baby pigs.)
  Svinovodstvo (7), 48.

### Animal Salmonelloses: Treatment and Control (Contid.)

- Stoenescu, V., Sandulescu, S. & Vior, C. 1961 (Experimental research on the drug treatment for paratyphoid of chickens.) Probl. zoot, vet., Bucuresti 11(9), 40-49. (F. sum.)
- Stoenescu, V., Sandulescu, S., Vior, C. & Enache, A. 1961 (Recherches sur la prevention et la lutte contre la paratyphose des volailles.) Probl. zoot. vet., Bucuresti 11(5), 54-61. (F. sum.)
- Stover, D. c. 1961 Sanitation as an approach to control of paratyphoid and paracolon infections. Avian Diseases 5, 350.
- Swiech, S. & Ramisz, A. 1961 (Control of salmonellosis in large piggeries.) Med. Wet., Warszawa 17, 325-326.
- Tagizade, M. 1961 (Treatment of salmonellosis of sheep in Azerbaijan S. S. R.) Sotsialist. Sel'sk. Khoz. Azerb. (8), 41-43.
- Wright, H. B. & Elder, C. 1960 Use of furazolidone in Salmonella choleraesuis enteritis of swine. Proc. Nat. Symp. Nitrofurans Agric. 3, 63-76.
- Zaher, A. & Eissa, Y. M. 1960 Effect of different levels of furazolidone on Salmonella pullorum infections in chickens. Agr. Res. Rev., Cairo 38, 226-230.

#### Experimental Salmonelloses

- Bierer, B. W. 1961 A method of inducing Salmonella typhimurium infection in chicks. J. Amer. vet. med. 4ss. 139, 790.
- Böhme, D., Wachstein, M. & Schneider, H. A. 1961 Behavior of acid phosphatase in the reticuloendothelial system of genetically susceptible and resistant mice infected with S. typhimurium. Amer. J. Path. 39, 103-117. Abstr: B. Ab. 36, 67724; Int. Ab. 24, 5463.
- Borgheresi, S., Calzolari, C., Panero, C. & Sangiorgi, A. 1961 (Behavior of the splenectomized guinea pig in experimental infection.) Rev. Clin. pediat. 67, 59-66.
- Buchin, P. I., Zinin-Bermes, N. N., Protsenko, O. A. & Komarova, M. A. 1961 (Materials on the carrier state in albino rats after experimental oral infection with dysentery and typhoid-paratyphoid bacilli.) J. Microbiol., Moscow 32(6), 136-137.
- Cooper, G. N. & Howard, J. G. 1961 Effect of the graft-versus-host reaction on resistance to experimental bacteraemia. Brit. J. exp. Path. 42, 558-563. Abstr: Int. Ab. 25, 4712; B. Hy. 37, 439.
- Darlow, H. M., Bale, W. R. & Carter, G. B. 1961 Infection of mice by the respiratory route with Salmonella typhimurium. J. Hyg., Camb. 59, 303-308. Abstr. B. Ab. 27, 10475; E. Hy. 27, 306; Int. Ab. 26, 1276; Z. B. 184, 469; V. B. 32, 1379.
- Dzis', I. P. 1961 (Reaction of the cellular elements of porous connective tissue of white mice in experimental salmonellosis.) Arkh. Pat. 23(2), 29-33. Abstr: B. Ab. 38, 2491.
- Glück, E. & Vogelsang, T. M. 1961 Le mecanisme de la bacterurie. L'infection alimentaire de la souris par Salmonella typhimurium. Etude bacteriologique et anatomopathologique a l'aide des anticorps fluorescents. (Note preliminaire). Ann. Anat. path. 6, 161-174. (E. sum.)
- Glück, E. & Vogelsang, T. M. 1961 The passage of Salmonella typhimurium through the kidneys of the mouse. Acta path. microbiol. scand. 51, suppl. 144, 103-104.
- Hill, C. H. & Garren, H. W. 1961 Protein levels and survival time of chicks infected with Salmonella gallinarum. J. Nutr. 23, 28-32. Abstr: B. Ab. 36, 27619; Int. Ab. 23, 3212; V. B. 31, 3165.
- Hotta, K., Kurokawa, M. & Mitsuhashi, S. 1961 (Intracellular infection. 3. On morphological changes in L-cells after contact with S. enteritidis.) Jap. J. Bact. 16, 914-916.
- Howard, J. G. 1961 Resistance to infection with Salmonella paratyphi C in mice parasitized with a relatively avirulent strain of Salmonella typhimurium. Nature, Lond. 191, 87-88. Abstr: B. Hy. 36, 1297; Int. Ab. 24, 734; V. B. 31, 3876.

# Experimental Salmonelloses (Contid.)

- Infection de la tortue Testudo graeca par voie intracardiaque avec une salmonelle. 1961 Rapp. Inst. Pasteur Maroc 1959-1960, pp. 8-12.
- Kafel, S. 1960 (Observations on the course of experimental mixed infections of animals with Salmonella typhimurium and S. choleraesuis.) Roczn. Nauk rol. Ser. E Vet. Sci. 70, 413-414. (E. sum.) Abstr: B. Ab. 27, 19184.
- Kalashnikova, G. K. 1961 (The effect of irradiation on the course of experimental B. breslau infection.) J. Microbiol., Moscow 32(10), 134-135.
- Ledyaev, A. D. & Udalykh, M. G. 1959-1960 (Influence of environmental temperature on susceptibility of mice to salmonella infection.) Sborn. nauch. Trud. Semipalatinsk. zootekh.-vet. Inst. 2, 123-129.
- Lizgunova, A. V. 1960 (The physiological protective function of the skin.)

  Thesis, Department of Microbiology, I. N. Piragov Second Medical Institute,

  Moscow 20 pp. Abstr: Ab. S. M. 5, 4721.
- Malwinska, K. 1960 (Studies on the course of Salmonella typhimurium infection in fishes.) Roczn. Nauk rol. Ser. E Vet. Sci. 70, 415. Abstr: B. Ab. 37, 19188.
- Mitsuhashi, S. & Hotta, K. 1961 (Gellular infection. 1. Salmonella enteritidis infection of L cells from the mouse.) Jap. J. Bact. 16, 317-321.
- Moroz, A. P. 1961 (Effect of nutritional protein deficiency on general distribution of Gartner's paratyphoid microbes after their intracutaneous introduction in experimental conditions.) Patol. Fiziol. eksp. Terap. 5, 33-35.
- Saito, K., Sato, I., Tanaka, T. & Mitsuhashi, S. 1961 (Studies on experimental salmonellosis. 8d. Effect of immune serum on the growth of Salmonella enteritidis in the mononuclear phagocytes in the mouse abdomen.) Jap. J. Bact. 16, 944-948.
- Stasilevich, Z. K. 1961 (Experimental salmonellosis in monkeys.) J. Microbiol., Moscow 32(2), 70-74. (E. sum.) Abstr: Ab. S. M. 5, 3244; V. B. 31, 2078.
- Stasilevich, Z. K. 1961 Experimental salmonellosis in monkeys. (Transl.) J. Microbiol. Epidemiol. Immunobiol. U.S.S.R. 32, 276.281. Abstr: B. Ab. 39, 6959; Int. Ab. 26, 5600.
- Taylor, J. & Wilkins, M. P. 1961 The effect of Salmonella and Shigella on ligated loops of rabbit gut. Indian J. med. Res. 49, 544-549. Abstr: B. Hy. 37, 516; B. Ab. 39, 6961.
- Val'dman, A. A. 1961 (Features of the morphological characteristics of experimental paratyphoid infection in rabbits during various stages of postnatal development.) Arkh. Pat. 23(2), 25-29. Abstr: B. Ab. 38. 2520.

# Experimental Salmonelloses (Cont'd.)

- Wachstein, M., Boehme, D. H. & Schneider, H. A. 1961 Acid phosphatase activity of reticuloendothelial cells of genetically resistant and susceptible mice during infection with murine salmonellosis. (Abstr.) Fed. Proc. 20, 266.
- Wheater, D. W. F. & Hurst, E. W. 1961 The effect of sex on bacterial infections in mice and on the chemotherapy of one of them. J. Path. Bact. 82, 117-130. Abstr: B. Ab. 32, 2768; Int. Ab. 24, 2914; V. B. 31, 3900.
- Zulinski, T. 1960 Histological examinations of internal organs of rabbits inoculated orally with various types of Salmonella. Biul. Inst. Wet., Pulawy 4, 33-37. (In E.)